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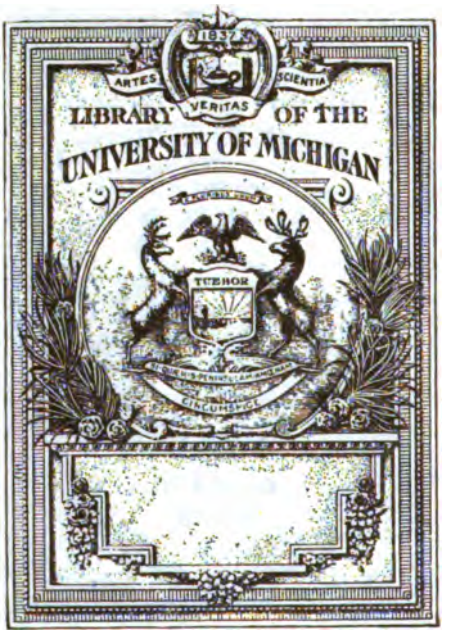
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BULLETIN OF THE UNIVERSITY OF WISCONSIN
Serial No. 1158, General Series No. 941

THE UNIVERSITY OF WISCONSIN

CATALOGUE

1921-22

MADISON
Published by the University
May, 1922

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CALENDAR FOR 1922

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CALENDAR FOR 1923

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CALENDAR

1921		
Sept. 19, 20, 21	Mon.-Tues.-Wed.	Registration Days.
Sept. 19, 20	Mon.-Tues.	Examinations for admission.
Sept. 22	Thursday	Lectures and recitations begin.
Sept. 24	Saturday	Special examination for removal of conditions.
Nov. 24	Thursday (one day)	Thanksgiving Day: legal holiday.
Dec. 22	Thurs. (12 M.)	Christmas recess begins.
1922		
Jan. 3	Tues. (8 A. M.)	Exercises resumed.
Jan. 14	Saturday	Examinations for removal of conditions.
Jan. 23–Feb. 1	Mon.-Wed.	Final examinations, first semester.
Feb. 2, 3	Thurs.-Fri.	Registration days.
Feb. 6	Monday	Lectures and recitations begin.
Feb. 22	Wednesday	Washington's Birthday: legal holiday.
April 12-18	Wed.-Tues. (inclusive)	Spring recess.
April 22	Saturday	Examinations for removal of conditions.
May 30	Tuesday	Memorial Day: legal holiday.
June 1-9	Sat.-Fri.	Final examinations, second semester.
June 8-9	Thurs.-Fri.	Examinations for admission.
June 11-14	Sun.-Wed.	Commencement week.

Commencement Week

June 11	Sunday	Baccalaureate Address.
June 12	Monday	Class Day Exercises.
June 13	Tuesday	Alumni Day.
June 14	Wednesday	Commencement Day.

Summer Session, 1922

June 19	Monday	Law School Opens.
June 26	Monday	Colleges and Graduate School Open.
August 4	Friday	Colleges and Graduate School Close.
August 25	Friday	Law School Closes.

THE ACADEMIC YEAR 1922-1923

1922		
*Sept. 13-16	Wed.-Sat. (Noon)	Early registration days.
Sept. 18-19	Mon., Tu.	Registration days.
Sept. 18-19	Mon., Tu.	Examinations for admission.
Sept. 20	Wednesday	Lectures and recitations begin.
Sept. 23	Saturday	Special examinations for removal of conditions.
Nov. 30	Thursday	Thanksgiving Day; legal and only holiday.
Dec. 20	Wednesday (Noon)	Christmas recess begins
1923		
Jan. 4	Thursday (8 A. M.)	Exercises resumed
Jan. 13	Saturday	Examinations for removal of conditions.
Jan. 22-31	Mon.-Wed.	Final examinations, first semester.
Feb. 1, 2	Thurs., Fri.	Registration days, second semester.
Feb. 5	Monday	Lectures and recitations begin.
Feb. 22	Thursday	Washington's Birthday; legal holiday.
Apr. 4-10	Wed.-Tu. (inclusive)	Spring recess.
Apr. 14	Saturday	Examinations for removal of conditions.
May 30	Wednesday	Memorial Day: legal holiday.
June 4-12	Mon.-Tu.	Final examinations, second semester.
June 11-12	Mon., Tu.	Examinations for admission.
June 15-18	Fri.-Mon.	Commencement exercises.

Summer Session, 1923

June 18	Monday	Law School opens.
June 25	Monday	Colleges and Graduate School open.
Aug. 3	Friday	Colleges and Graduate School close.
Aug. 24	Friday	Law School closes.
1923-24		
Sept. 24-25	Mon., Tu.	Registration days.
Sept. 26	Wednesday	Lectures and recitations begin.

* Freshmen in the College of Letters and Science may get class assignments on Friday and Saturday, September 15 and 16 A. M.

THE UNIVERSITY OF WISCONSIN

ORGANIZATION AND DIRECTORY OF ADMINISTRATIVE OFFICERS

EDWARD A. BIRGE, President—Bascom Hall.

EDUCATIONAL ADMINISTRATION

S. H. GOODNIGHT, Dean of Men—South Hall.
F. LOUISE NARDIN, Dean of Women—Lathrop Hall.
C. A. SMITH, Secretary of the Faculty—Bascom Hall.
W. D. HIESTAND, Registrar—Bascom Hall.
T. LLOYD JONES, Chairman, Committee on High School Relations—Bascom Hall.
W. M. SMITH, Librarian—Library.

BUSINESS ADMINISTRATION

J. D. PHILLIPS, Acting Business Manager—Administration Building.
M. E. MCCAFFREY, Secretary of the Regents—Administration Building.
C. W. VAUGHN, Accountant—Administration Building.
G. L. GILBERT, Bursar—Administration Building.
F. X. RITGER, Purchasing Agent—Administration Building.
ETHEL H. RATH, University Editor—Administration Building.
G. M. HYDE, Editor of the Press Bulletin—South Hall.

The College of Letters and Science

GEORGE C. SELLERY, Dean—2 South Hall.
F. W. ROE, Junior Dean—3 South Hall.
H. GLICKSMAN, Assistant Dean—3 South Hall.

THE SCHOOL OF MUSIC
C. H. Mills, Director—22 Music Hall.

THE COURSE IN CHEMISTRY
J. H. Mathews, Director—153 Chemistry Building.

THE COURSE IN COMMERCE
W. A. Scott, Director—407 Sterling Hall.

THE COURSE IN JOURNALISM
W. G. Bleyer, Director—33 South Hall.

THE LIBRARY SCHOOL
C. B. Lester, Director—Capitol.

THE COURSE IN PHARMACY
Edward Kremers, Director—303 Chemistry Building.

THE SCHOOL OF EDUCATION
V. A. C. Henmon, Director—123 Bascom Hall.

THE DEPARTMENT OF PHYSICAL EDUCATION
T. E. Jones, Chairman—1A Gymnasium.

The College of Engineering

F. E. TURNEAURE, Dean—111 Engineering Building.
A. V. MILLAR, Assistant Dean—208 Engineering Building.

THE CIVIL ENGINEERING COURSE
THE MECHANICAL ENGINEERING COURSE
THE ELECTRICAL ENGINEERING COURSE
THE CHEMICAL ENGINEERING COURSE
THE COURSE IN MINING, METALLURGY AND GEOLOGY

The College of Agriculture

H. L. RUSSELL, Dean—101 Agricultural Hall.
J. A. JAMES, Assistant Dean—105 Agricultural Hall.

THE EXPERIMENT STATION—F. B. Morrison, 105 Agricultural Hall.
EXTENSION SERVICE—K. L. Hatch, Assistant Director.
THE LONG COURSE IN AGRICULTURE
THE MIDDLE COURSE IN AGRICULTURE
THE COURSE IN HOME ECONOMICS
ABBY L. MARLATT, Director—119 Home Economics Building
THE SHORT COURSE IN AGRICULTURE
THE DAIRY COURSE—E. J. Farrington.
THE FARMERS' INSTITUTES—E. L. Luther, Superintendent.

The Law School

H. S. RICHARDS, Dean—Law Building.

The Medical School

C. R. BARDEEN, Dean—Clinical Building.

The Graduate School

C. S. SLICHTER, Dean—157 Bascom Hall.

The University Extension Division

L. E. REBER, Dean—108 University Extension Building.

THE DEPARTMENT OF CORRESPONDENCE-STUDY
THE DEPARTMENT OF DEBATING AND PUBLIC DISCUSSION
THE DEPARTMENT OF GROUP AND COMMUNITY SERVICE

The Summer Session

S. H. GOODNIGHT, Director—22 South Hall.

THE REGENTS OF THE UNIVERSITY

EDWARD A. BIRGE, *President of the University, ex officio.*
JOHN CALLAHAN, *State Superintendent of Public Instruction, ex officio.*

	Term Expires
State-at-Large—GILBERT E. SEAMAN, Milwaukee	1925
State-at-Large—MRS. FLORENCE G. BUCKSTAFF, Oshkosh	1923
First District—A. J. HORLICK, Racine	1925
Second District—WALTER J. KOHLER, Kohler	1924
Third District—HARRY L. BUTLER, Madison	1925
Fourth District—THEODORE M. HAMMOND, Wauwatosa	1922
Fifth District—THEODORE KRONSHAGE, Milwaukee	1927
Sixth District—MISS ELIZABETH WATERS, Fond du Lac	1927
Seventh District—D. O. MAHONEY, Viroqua	1926
Eighth District—FRANKLIN A. NACE, Iola	1928
Ninth District—EDWARD W. MILLER, Marinette	1924
Tenth District—BEN F. FAAST, Eau Claire	1926
Eleventh District—PETER EIMON, Superior	1923

Officers of the Regents

WALTER J. KOHLER, *President.*
BEN F. FAAST, *Vice President.*
HENRY JOHNSON, *State Treasurer, ex officio Treasurer.*
J. D. PHILLIPS, *Acting Business Manager.*
M. E. MCCAFFREY, *Secretary.*

THE BOARD OF VISITORS

Regent Appointments

		Term Expires
Mrs. Charles R. Carpenter	Madison	July 1, 1922
George P. Hambrecht	Madison	July 1, 1923
Loyal Durand	Milwaukee	July 1, 1924
Edward M. McMahon	Milwaukee	July 1, 1925

Alumni Appointments

Mrs. Howard Greene	Milwaukee	July 1, 1922
Israel Shrimski	Chicago	July 1, 1923
Will A. Foster	Elkhorn	July 1, 1924
Alice Bemis	Chicago	July 1, 1925

Governor's Appointments

W. A. Titus	Fond du Lac	July 1, 1922
Mrs. Chas. M. Morris	Milwaukee	July 1, 1923
E. B. Belden	Racine	July 1, 1924
Carl J. Hesgard	Orfordville	July 1, 1925

THE OFFICERS OF INSTRUCTION AND ADMINISTRATION

UNIVERSITY FACULTY

"The University Faculty shall consist of the President of the University, all deans and directors, professors, associate professors, assistant professors, acting professors, lecturers on regular appointment, the mistresses of the Women's Halls, the superintendent of agricultural institutes, Librarian and assistant librarians, and the High School Inspector." (Laws of the Regents, Chapter 111, Section 2 (2), page 137—1914 edition.)

"The faculty of each college, school, or division shall consist of the President of the University, the Dean, and all persons who give instruction in that college, school or division with the exception of student assistants, fellows, and scholars." (Laws of the Regents, Chapter 111, Section 3 (2), page 139—1014 edition.)

The number preceding the name indicates:
[1] Leave of absence, academic year, 1921-22.
[2] Leave of absence, first semester, 1921-22.
[3] Leave of absence, second semester, 1921-22.
[4] Appointment for part of the year, 1921-22.
[5] Leave of absence, academic year, 1922-23.

BIRGE, EDWARD ASAHEL, Ph.D., Sc.D., LL.D., President of the University. *B. H.* 158. 772 Langdon

PARKINSON, JOHN BARBER, M.A., Vice President and Professor of Constitutional and International Law. *Emeritus.* 516 Wisconsin Ave

AAGAARD, ARTHUR HILDEMAN, B.S., Assistant Professor of Steam and Gas Engineering. *E. B.* 224. 27 W. Dayton

ADAMS, CLARISSA AUGUSTA, Mistress of Barnard Hall. *Barnard.* Barnard

ADKINS, HOMER BURTON, Ph.D., Assistant Professor of Chemistry. *C. B.* 309. 1728 Van Hise Ave

ALEXANDER, ALEXANDER SEPTIMUS, F.H.A.S., M.D.C., Professor of Veterinary Science. *A. H.* 203. 811 Spaight

ALLEN, CHARLES ELMER, Ph.D., Professor of Botany. *B. B.* 104. 2014 Chamberlin Ave

ALLEN, CHESTER, District Representative, Oshkosh District, Extension Division. *40 Washington Blvd.* 53 Merritt St., Oshkosh

ALLEN, KATHARINE, Ph.D., Assistant Professor of Latin. *B. H.* 266. 228 Langdon

ANDERSON, ARTHUR HENRY, M.E., Assistant Professor of Steam and Gas Engineering. *E. B.* 224. R. D. 7

ANDERSON, NELS ANDREAS, M.A., District Representative, Eau Claire District, Extension Division, *Library*. Eau Claire

ARBOGAST, MARY GERTRUDE, B.S., Assistant Professor of Home Economics. *H. E. B.* 219. 904 Oakland Ave

ATKIN, ERNEST GEORGE, Ph.D., Assistant Professor of Romance Languages. *B. H.* 307. 803 State

AUST, FRANZ A., M.S., Associate Professor of Landscape Design. *H. B.* 119. 2202 Commonwealth Ave

BABCOCK, STEPHEN MOULTON, Ph.D., LL.D., Sc.D., Professor of Agricultural Chemistry. *Emeritus. A. C. B.* 204. 432 N. Lake

BALLARD, JOHN ADAMS, Captain, Signal Corps, U.S.A. Assistant Professor of Military Science and Tactics. *Armory* 2. 121 S. Hamilton

BARDEEN, CHARLES RUSSELL, B.A., M.D., Dean of the Medical School. Professor of Anatomy. *Clin. B.* 23 Mendota Ct

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HISTORY AND GOVERNMENT

In the settlement of the pioneer regions of the United States, it very early became the established practice to set apart a share of the unoccupied land for the support of an institution of higher learning. Immigrants were thus assured that the opportunities of an advanced education would not be denied the children of the new community because the founders of it had ventured into the wilderness. This system, conceived in a spirit of statesmanship at once high and prudent, tended to draw an intelligent body of citizens into the region which was being settled, and to set at work forces which would be felt in the permanent elevation of the tone of public education. Thus in 1836, the first year of the territory of Wisconsin, steps toward the establishment of a university were taken by the territorial legislature. In 1839, the National Congress granted to the territory two townships of public land "for the use and support of a university"; and in 1848, when Wisconsin was applying for admission to statehood, provisions for the university were written into the constitution laid before Congress.

The state was admitted May 29, 1848; the necessary legislative acts providing for the organization of the University were approved July 26 of the same year; and the first Board of Regents met at Madison in October. The new state had nothing with which to endow the new institution but the unsettled land already granted to it. The Regents, therefore, had before them the choice of two courses—to sell the lands at low prices in competition with the other wild lands of the state, or to refrain from selling until the increase of population should have raised the value of the university property to a substantial amount. The one course would sacrifice the material endowment; the other would prevent the state from benefiting by the influence of the University in its formative years. The Regents, wisely, as the history of the state has proved, determined to open the institution without delay. The financial operations which followed have been severely condemned, but there can be no question that the intelligent bounty of the state legislature has afforded the University a safer and far more generous support than the largest possible endow-

ment that could have been secured by the conservative management of the land of the institution. Moreover the direct dependence of the University upon the legislature has made it a part of the life of the state in an intimate way, and by making higher education a practical matter for all citizens, has performed a useful service as an element in raising political questions above a merely material plane.

The new institution began instruction in February, 1849. It bore the name of a University, but had in operation only a preparatory school of twenty pupils, under the tuition of John W. Sterling, a graduate of Princeton, who bore the title of Professor of Mathematics. Professor Sterling gave a life of sacrificial devotion to the institution as it added to its academy a little college, and as the little college carried on its struggling and painful life. He was happy enough to live until the University began to assume proportions worthy of its ambitious name. The chancellor, John H. Lathrop, a graduate of Yale, called from the presidency of the University of Missouri, entered upon his duties in the autumn of 1849. He was a man whose plans were genuinely large and at the same time definite but were in the main never realized because of the paucity of funds. He insisted upon maintaining a solid classical course as the nucleus about which all possible future developments were to be gathered but which was never to be sacrificed to any other objects, however possible it might seem and however much he desired to meet them. Under his administration (1849-1858) the faculty grew to seven members, and some systematic instruction was given in modern languages, English literature, the art of teaching, and agriculture, as well as ancient languages, mathematics and philosophy. The college was bitterly criticized. There was a feeling abroad, vague but insistent, that the University did not do for the community what it should. A "practical" education was wanted, without any clear idea of what a practical education might be, or how expensive the equipment for it must be. Chancellor Lathrop resigned, and after a few months, during which the well known educational theorist, Henry Barnard, then in ill health, held the title of chancellor, the administration lapsed into the hands of the faculty, Professor Sterling presiding as vice-chancellor. The dark days of the Civil War followed. The professors lived on half pay. Many of the students took their places in the army, so that in 1864 no commencement exercises were held, only one of the senior class being in residence.

The maintenance of the institution during these days of struggle had its important effect—that a center and a tradition were created. The material beginning of the University may fairly be said to be the grant under the Morrill act (1862) for the support of a college of agriculture and mechanic arts "without excluding other scientific and classical studies." This noble statute bears evidence of the influence of the Civil War in that it made instruction in military tactics a condition of the continuance of the grant. The very smallness of the literary college perhaps made it the more natural to amalgamate the new institution with the old, and thus to give to the University of Wisconsin its peculiar character. In the state all types of highest instruction, whether liberal, professional, or technical, are given by the one institution. A school of music and the beginning of a school of decorative art have since been added; and in addition many scientific bureaus are administered in close relation with the University. The University of Wisconsin has accordingly a very great diversity of functions and a very complex organization. In this way unseemly rivalries among institutions of higher learning conducted by the state have been avoided and the conception of instruction within the University has been in some departments liberalized and in others elevated.

The reorganization of the institution after the acceptance of the Morrill grant was carried out under the vigorous presidency of Dr. Paul A. Chadbourne of Williams College (1867-1870). A department of agriculture and a college of law were established in 1868; steps were taken toward the acceptance of women students on an equality with men; and the legislature began, first of all to appropriate moneys to compensate for the impairment of the university fund, later resumed the responsibility of providing necessary buildings, and finally took the step of voting direct taxes for the support of the University. At the same time a system bringing the University into close relations with high schools in the state was organized. The presidency of Dr. John H. Twombly (1871-1874) followed that of Dr. Chadbourne.

The foundations of the University had now been laid, and the policy of including within it a group of technical and professional colleges, as well as strong college of liberal arts, had been determined upon. During the presidency of Dr. John Bascom (1874-1887), the University was developed into a firmly organized and well equipped teaching institution, was brought into close and orderly relations with the other public schools of the state, and

was made a moral force in the lives of its students and of the community. Dr. Bascom found the recognition of coeducation half-hearted and ambiguous and made it distinct and complete. He found the income deficient, the buildings, the library, and the scientific apparatus inadequate, and the faculty too small for the proper division of departments and the maintenance of high standards. In every point the institution was put on a sound basis. Buildings were erected and satisfactorily equipped, especially for the science departments. The library was enlarged. The faculty became a body of specialists, and not of general teachers. Dr. Bascom more than any other man was responsible for the increase in income which made this progress possible, by the creation of a ratio tax, established in 1876 in the proportion of one-tenth mill to each dollar of the property valuation of the state. The system has been maintained with few interruptions and with liberal increases ever since. Finally the free high schools, the establishment of which was promoted by an act of 1875, granting state aid to such institutions, were bound to the University by a system of accrediting their graduates on the one hand, and on the other by the recognition of the university degree as a qualification for a certificate to teach in the public schools of the state.

In the administration of Dr. Bascom's successor, Dr. Thomas Chrowder Chamberlain (1887-1892), a graduate of Beloit College, the strong college of Dr. Bascom began to grow into a true university. In all ways graduate work assumed a place as an active part of the institution. Scholars with the ideals of research brought from Johns Hopkins or from Germany were added to the faculty. The first university fellowships were established. The degree of doctor of philosophy was offered. A new organization, into the Colleges of Letters and Science, Engineering, Agriculture and Law, effected in 1889, testifies to the growing vigor and more distinctly understood aims of the professional and technical institutions. Intercollegiate debates and athletics and "student activities" began to be heard of, and in brief the tendencies which have resulted in the conditions of the present day showed themselves definitely.

During the presidency of Dr. Charles Kendall Adams (1892-1901) these tendencies became dominant. A large armory and gymnasium was built. An athletic field was acquired—Camp Randall, the historic encampment where the Wisconsin troops were concentrated during the Civil War. The University became

socially more complex. A dean of women was appointed. A school of music and a choral society were established. In every way the institution developed. The colleges of law and of engineering grew rapidly, and had to be provided with new buildings. The fields of political, economic, and social science and of history were greatly strengthened. The University had become very definitely the recognized culmination of the public instruction of the state, and was resorted to in increasing numbers by graduates of the state normal schools. The institution was cramped for want of room; and though the increases in building and equipment were rapid, they barely kept pace with the enormous growth in the number of students. The crowning achievement of Dr. Adams's administration was the erection on university ground of a building to house, with the University library, the library of the State Historical Society—a reference library of great value, and in some aspects unique. The improvement of the facilities placed at the service of the University by the opening of the library, which took place in 1900, marks an epoch in the history of the institution.

Dr. Adams's health failed in 1900; and from that time to 1903, with but a few weeks of interruption, Dr. Edward Asahel Birge, for many years a member of the faculty and then Dean of the College of Letters and Science, was acting president. Throughout the entire period the increase in numbers and the corresponding development of the work of the institution went on uninterruptedly.

Charles Richard Van Hise, professor of geology, was the first alumnus of the University to be called to the presidency, which he assumed in 1903 and occupied until his death on November 19, 1918. The material progress of the institution continued under his administration. The College of Agriculture became an important teaching college, as well as an institution of research. A course in home economics was created; the first two years of a medical course were given. Courses in journalism, in chemistry, for training of teachers, were established, while the older similar school of commerce, now denominated a Course, continued to thrive. Lagging somewhat behind these advances have come the material provisions for them, so that the University remains crowded. The mere enumeration of the newly organized courses illustrates the fact that during the administration of President Van Hise, the tendency of the University to accentuate professional equipment rather than a liberal culture suffered no abate-

ment. At the same time, the work of the departments of the humane arts and the pure sciences constituted the largest single part of the activity of the University, and the opportunity and the ideal of liberal culture were maintained with energy.

The war made a deep impress upon the life of the University. In such a national crisis an institution of higher learning manifests its ideals mainly through the response of those who have received its training and imbibed its spirit. The University fostered the ability and encouraged the desire of its faculty, alumni, and students to be of directly active use to their country, an ability and a desire which have been abundantly manifested. For the alumni it could do little directly, but it has carefully preserved the record of their service as a memorial to the future. To the members of the faculty called to war work, it granted leave of absence on generous terms. The total faculty, alumni, and students in active military service was upwards of 5,000 men.

The signing of the armistice did not terminate the University's connection with the war, for many students and not a few of the professors remained in service in the war zone, or in the Army's educational schools, or aided the American Commission in the manifold duties of settling the terms of the Peace of Versailles. In all the labors of war and of the coming peace, President Van Hise was untiringly active, and his death, a few days after the armistice, was in truth another sacrifice which the Great War imposed upon the University.

In January, 1919, Edward Asahel Birge, who had been Dean of the College of Letters and Science since 1891, was elected to succeed President Van Hise.

The University of Wisconsin is the culmination of the free educational system of the state. In the educational policy of the state, the University is related to the high schools as are the high schools to the primary and grammar schools. It is not expected that all pupils who complete the grammar grades will advance to the high school; nor is it expected that all who complete a high school course will go forward to the University. But the school system of the state has been so arranged as to make advancement from one step to another as easy and natural as possible. The University encourages in its teachers and advanced students research, including learning, investigation, and the application of scientific knowledge to the arts of life. Its largest work is to disseminate knowledge through the systematic discipline of organized courses to resident students, both in liberal and pro-

fessional study. In addition, the University, through an Extension Division organized upon the broadest basis, assists those who for any reason cannot become resident students to enjoy the benefits of its facilities and equipment, with the fewest possible restrictions.

The University is supported partly by the income of federal grants, partly by taxation of the people of the state, partly by student fees, and to a slight extent by private gifts. There have been several federal grants, namely: The two-Township Grant of 1848; the Supplementary Two-Township Grant of 1854; the Morrill Grant of 1862 for the support of studies pertaining to agricultural and mechanic arts; the Hatch Grant of 1887 for the support of agricultural experiment stations; the Supplementary Morrill Grant of 1890; the Adams Grant of 1906; the Nelson Grant of 1907; and the Smith-Lever Grant of 1914, for the promotion of extension work in agriculture and home economics.

Besides numerous and large appropriations for buildings and other scientific purposes, the state of Wisconsin has made a number of continuing grants. The first was the one-tenth mill tax of 1876. The principle of this tax was once temporarily abandoned, but has been recurred to by the legislature, the present ratio being three-eighth of a mill on the dollar.

The more important gifts that have come to the University are from Dane County for the purchase of lands for the University farm; from the late Governor C. C. Washburn for the founding of Washburn Observatory; from the late Judge Mortimer M. Jackson for the establishment of the Mortimer M. Jackson Professorship of Law; from the late Dr. C. K. Adams and Mrs. Adams for the foundation of fellowships; and from Mrs. Fannie P. Lewis for the foundation of scholarships for women. On August 27, 1908, the entire estate of Colonel William F. Vilas was bequeathed to the University, the income, however in part, or whole if need be, to go to his wife and daughter during their lives. Half the income of the estate is to be used for the support of research professorships, fellowships, and scholarships, and the remainder to increase the principal. In 1911, friends of the University created the Carl Schurz Memorial Foundation, with a fund of $30,000 given in trust to the Regents of the University.

The late J. Stephens Tripp, of Prairie du Sac, made the University residuary legatee of his estate of approximately $400,000. The bequest is chargeable with certain annuities, and like that of Colonel Vilas, will not become available for a number of years.

Its freedom from limitations or restrictions of any kind marks it as a remarkable expression of confidence in the permanent administration of a great public educational trust.

The government of the University is vested in the Board of Regents, who possess all the powers necessary to accomplish the objects of its establishment and to perform the various duties prescribed by law.

The Regents, appointed by the governor of the state, include one member from each of the eleven congressional districts, and two from the state-at-large. At least two of the members are women and the President of the University and Superintendent of Public Instruction are *ex officio* members of the Board.

The Regents appoint all administrative officers and faculty members, and all faculty rules regarding the government of students are subject to their approval.

The University Faculty exercises authority, subject to the approval of the Board of Regents, in all matters relating to educational policy, scholastic standards, and, in general, the relation of students to the University.

All members of the staff of instruction with the ranks of assistant professor or above constitute the governing faculty, with power to take action on questions within the jurisdiction of that body. Other members of the staff of instruction have a voice but no vote at all meetings of the University faculty, with the exception of executive sessions.

The faculty of each college, school, or division is similarly organized for the purpose of administering matters relating solely to its own unit of organization.

DESCRIPTION*

By the provisions of the constitution of the state of Wisconsin the University must be located at or near the state capitol, afterwards fixed at the "village of Madison." The founders of Madison intelligently adapted the original plan of the city of Washington to local conditions, selecting an eminence in the center of the city for the site of the capitol, and laying out radial thoroughfares approaching it so that it closes the vista from every direction. A mile to the west, at the end of one of these radial streets, on a second elevation rising abruptly to a height of more than a hundred feet above the south shore of Lake Mendota, the principal building of the University was erected, thus closing the view from the capitol in that direction. This building, University Hall, was constructed in the simple and dignified modification of classical renaissance architecture accepted in America since colonial times. The building, much enlarged, but in a manner harmonious with the original design, still remains the center of the University. From University Hall a broad open avenue lined with elms, the Upper Campus, sweeps downward to the street which leads through the city from the Capitol. Until recently the main buildings of the various colleges and professional schools were placed on either side of the avenue, and outward from it north and south along the eastern border of the university grounds. Here for example are the recitation buildings and laboratories of the College of Engineering and the Law and Medical Schools, and all but the most recent buildings of the College of Letters and Science. Later in the history of the University it was found seriously inconvenient to erect all the buildings on the slopes of hills, and lands were acquired in the low and level part of Madison to the eastward of the Upper Campus and near the lodgings of the body of students. Here is now a group of buildings, such as the offices of the medical staff, the administration building, and the president's house, which are so intimately connected with the general activities of the University that they must be of easy access. The gymnasium and armory stands on the lake shore, with the plant

*See map following title page.

for aquatic sports behind it and an open space covering an acre and a half before it—the Lower Campus—which is utilized as a parade ground and for such athletic sports as do not require the ample area of a regular athletic field. Of all the buildings on this part of the university grounds, the most notable—the most stately of all buildings connected with the work of the University—is the Library Building, which houses the library of the State Historical Society and also the library of the University—an edifice of Bedford limestone with a colonnade and terrace of much beauty and dignity fronting the Lower Campus.

The street along the southern edge of the University Hill is now in great measure built up by recently constructed buildings, the most impressive of which is Lathrop Hall, the women's building, containing a spacious modern gymnasium and swimming pool, a refectory, and accommodations for the social life of the women of the University, and the offices of administration concerned especially with women students. It is built of buff sand stone in a style similar to that in the earlier buildings, but somewhat more ornate, and with its long and lofty facade standing at the top of a high flight of steps and in part flanked by smaller buildings it is next to University Hall the most striking of all the buildings of the University.

About a quarter of a mile to the west of the height on which University Hall stands is a second summit of the ridge, crowned by the Washburn Observatory. On the southern and western slopes of this second hill are the buildings of the College of Agriculture which are used for instruction. The experimental farm of the University, used mainly for experiments in detail with crops and feeding, is in the main on level or slightly sloping ground to the west of Observatory Hill. About the southern and eastern edges of it are the various barns: the horse barn, the dairy barn, the sheep barn, the poultry buildings, and the other buildings required by the College of Agriculture, especially for its demonstration work, such as the Dairy Building and the Horticultural Building. Of all these the most notable is the Stock Pavilion, containing an oval amphitheater with a seating capacity for two thousand people, and an earthen arena for exhibition purposes covering over 10,000 square feet.

The grounds already in part occupied by buildings, 100 acres in all to the edge of the Experimental Farm, will no doubt in the course of no very long time be entirely devoted to the buildings required for purposes of instruction. In addition, the University

owns lands along the shore of the lake to the west, mainly uplands with a diversified surface now used as a general farm, and for experiments on a large scale in farm administration and tillage.

The athletic field, forty-two acres in extent, is at some distance to the south of the agricultural buildings. The field includes football and baseball grounds, a running track, tennis courts, and archery grounds. A modern concrete stadium, a new football field, and a fieldhouse for women were completed in the fall of 1917.

The total area of the grounds of the University is not much less than one thousand acres. They are of marked natural beauty, and provide for the probable increase of the University in a far-sighted way. The grounds have a special archaeological interest because of the abundance in and near Madison of the so-called Indian effigy mounds. These are small mounds of earth in the form of animal and other totems, made by the Winnebago and allied native tribes in prehistoric periods, and are unique, being found only in Wisconsin and along the boundaries of the state to the west and south.

The museums of the University are in the main working illustrative collections for use in connection with the instruction of the departments. The collection of chemical manufactures includes the products of a number of the most important European and American establishments. The drug collection contains some five thousand specimens for illustrative purposes contributed mainly by manufacturers, being especially noteworthy for its collection of drugs of Asiatic origin, particularly Malay and Ceylonese drugs and medicines. The herbarium, which has grown from the collection purchased from the estate of I. A. Lapham of Milwaukee as a nucleus, is now especially rich in Wisconsin flowering plants and fleshy fungi, and contains an almost complete collection of North American mosses.

The geological museum contains extensive systematic collections for exhibition and for use in instruction, including carefully planned general and special collections of minerals, rocks, ores, and fossils. The display exhibits are particularly ample in illustrating the origin and formation of rocks. The main body of specimens in the division of rocks consists largely of the Hobbs collection of European igneous rocks including over twenty-five thousand thin sections. The department under the laws of the state also receives the rock collections of the present State Geo-

logical Survey, and has in addition the use of nearly seventy thousand specimens and twenty thousand thin sections belonging to the United States Geological Survey, which were collected during studies of the Lake Superior region. A few only of the type fossils described by the former Geological Survey of Wisconsin escaped the fire which destroyed the collection of that organization in 1884, but the losses are being gradually replaced.

The museum of the State Historical Society, which though not administered by the University, is open to the use of its students for purposes of study and research, makes a specialty of the archaeology and social history of the western Indians, and of the western pioneer life, especially in Wisconsin, and is notable for its collections illustrating the early history of the upper Mississippi valley.

The art museums belonging to the University or accessible to its students are not yet developed. The Art Museum of the Historical Society contains a number of modern pictures of merit, a collection of Piranesi's etchings of classical ruins, and a number of good prints and reproductions valuable for study. By the gifts of alumni and friends, and the loans of Professor Paul S. Reinsch, the University is in possession of a collection of almost two hundred valuable paintings as an art nucleus.

LIBRARIES

The libraries at Madison, all of which are at the service of members of the University, are six in number, viz., the Library of the University of Wisconsin, the Library of the Historical Society of Wisconsin, the Library of the Wisconsin Academy of Sciences, Arts, and Letters, the State Law Library, the Legislative Reference Library, and the Madison Free Library. These libraries duplicate books only to supply exceptional demands, and have an effective strength approximately equal to the whole number of volumes possessed by them. The total number of bound volumes in all the libraries is about 644,000 and the number of pamphlets exceeds 338,000.

The first three libraries above named are housed in the library building of the State Historical Society on the lower campus of the University. This building, erected by the state of Wisconsin, affords most convenient accommodations for students. In the planning of the building, the special needs of the University were consulted.

In the south half of the first floor are located three department libraries of the Historical Society, viz., documents, newspaper files, and maps and manuscripts. In the north end of this floor is a series of six seminary rooms, allotted to American history, European history, economics, political science, mathematics, and Semitic languages. The greater part of the second or main floor is occupied by the general reading room and the periodical room, which are used in common by the two libraries. In open cases in the reading rooms are shelved several thousand general reading, reference, and "reserved" books. To these, as well as to the large collection of general periodicals in the periodical room, all readers have direct access. The main portions of both libraries are stored in the stack wings adjoining the delivery room on the west. Officers of the University have direct access to the shelves in all parts of the library, and students engaged in advanced work, upon recommendation of their instructors, are allowed access to those parts of the collection dealing with their special subjects.

The administrative rooms of the Historical Society and of the University Library are situated at the south and north ends of the second floor respectively. The north end of the third floor is

occupied by six seminary rooms for the subjects of philosophy and education, Latin, Greek, and modern languages and English. The museum and gallery of the Historical Society occupy the fourth floor. The library is open fourteen and one-quarter hours daily, during the academic year, except on Sundays and legal holidays.

The Library of the University of Wisconsin, including its branches, contains about 296,000 volumes and 57,000 pamphlets. The catalogue is the usual dictionary card catalogue of authors, subjects, and titles in one alphabetical arrangement. Subject to certain restrictions, books may be drawn by all members of the University. Every matriculated student of the University for the regular year is required to make a library deposit of $2.00 as per statement on page 80. This deposit, less charges for fines and damages, is returnable to the student by the Bursar upon graduation or earlier withdrawal from the University.

The Law School has a special library of 32,000 volumes. The Washburn Observatory is provided with the Woodman Astronomical Library, now containing 2,600 books and 2,800 pamphlets. The agricultural library of about 20,000 volumes is located on the first floor of Agricultural Hall. The engineering library is located on the first floor of the Engineering Building.

The Library of the State Historical Society contains over 224,000 volumes and 239,000 pamphlets. While strong in all fields of American history and allied subjects, it is especially rich in manuscript and other material for the study of the history of the Mississippi valley. Its collections in English history are among the most extensive in this country.

The Library of the Wisconsin Academy of Sciences, Arts, and Letters, comprising about 5,000 volumes, is a valuable collection of reports and transactions of learned societies. It is located in the library building, and constitutes a useful supplement to the other libraries in this special field.

The State Law Library in the Capitol numbers about 70,000 volumes.

The Legislative Reference Library in the Capitol numbers 50,000 volumes, pamphlets, and collections of clippings. This library collects information on all subjects of legislation. The material is largely in the field of political science and political economy.

Students are allowed to draw books from the Madison Free Library, a well selected collection of 48,500 volumes.

GENERAL INFORMATION

EXPENSES

Tuition, Fees, and Deposits[1]

No resident tuition is charged except in the Library School and the Wisconsin High School.

	Nonresident Tuition[2]	Incidental Fee
COLLEGES OF LETTERS AND SCIENCE, AGRICULTURE (Long and Middle Courses), and ENGINEERING; LAW, MEDICAL and GRADUATE SCHOOLS; and SCHOOL OF MUSIC,[3] per semester	$62.00	$15.00*
Library deposit required of all students upon entrance, $2.00.		
COLLEGE OF AGRICULTURE		
Short Course, three terms, per term	17.22	3.00
Dairy Course (Winter), per course	41.33	8.50
(Summer) 5 wks. minimum, per term	17.25	6.00
SUMMER SESSION		
Graduate School; Colleges of Letters and Science, Engineering, Agriculture (6 weeks)		22.00
Law School (10 weeks)		35.00
Chemical Engineering (5 weeks)		19.00
Field Courses; geology (4 weeks)		18.00
railroad surveys (2 weeks)		7.00
topographical engineering and surveying (4 weeks)		14.00
Extra weeks beyond the regular session, per week (If not enrolled in preceding S. S., fee will be $5.25 for first week.)... Auditors pay the same fees as regular students.		3.25
LIBRARY SCHOOL, resident tuition, $25 per semester[4]	50.00	

*This includes an infirmary fee of $3.00.

[1] A fee is a charge none of which is returnable; a deposit is a charge part or all of which may be returnable.

[2] Provisions for remission of nonresident tuition in certain cases are given under "Wisconsin Legislative Scholarships," p. 89. Loans may also be made to needy students. See pp. 92ff.

[3] Members of other colleges of the University may take general courses in music without charge. Persons taking special courses pay special fees. See School of Music.

[4] Students who have paid fees in other departments before entering the Library School pay an additional fee to reach the above amounts.

WISCONSIN HIGH SCHOOL,[1] per quarter		
6th and 5th classes, resident tuition.....	$6.00	$15.00
4th, 3rd, 2nd, and 1st classes, tuition.....	8.00	15.00

Laboratory Charges

Charges are made in the various laboratories to cover the expenses of material consumed. Unless otherwise noted, charges are for one semester only. The present scale of charges (1921-22) follows. If the cost of materials increases, the charges for 1922-23 will be raised accordingly. A laboratory credit equals two hours per week of laboratory work.

COLLEGE OF LETTERS AND SCIENCE

	Fee	Deposit
Botany—Per 2 hours weekly in laboratory.....	$1.25	....
Key and breakage deposit, per course.....	....	$.50-1.00
Except 146.....	4.00	2.00
Except 147.....	....	5.00
Research students.....	3.00	....
Chemistry—		
*1, *30, *108, *130.....	17.25	7.75
2	10.35	4.65
*11, *11Ag, *17, *112, *118.....	17.25	17.75
113	3.45	4.55
119	13.80	11.20
*20, *120, *146.....	17.25	12.75
Thesis, undergraduate.....	6.90	8.10
*Thesis, graduate.....	17.25	7.75
Pharmaceutical—26, 27, each.....	11.50	3.50
40 (year).....	20.70	7.30
45	2.30	2.70
Economics—Accounting—materials used.		
Geology		
1, 3, 4, 9, 133, each.....	1.50	....
2, 109, 121, 130, 143, each.....	1.00	....
5C	.50	....
6, 7, 108, each.....	6.00	....
8	**2.00	....
114, 115, each.....	3.00	....
Journalism—3 and 8, per credit.....	1.00	....

[1] Four quarters of twelve weeks each constitute the complete year. At present (1921) the high school is in regular session but three quarters, but probably will have a six weeks' summer term.

*The fees for these courses are stated for five credits. Where the course is taken for a less number of credits the fee and deposits are proportionately less.

**$4 if microscope is used.

	Fee	Deposit
Manual Arts—		
Shop laboratory courses, per credit	$2.00	....
51	1.50	....
56—1st semester	1.00	....
2nd semester	2.00	....
70, 71, add breakage deposit	....	$2.00
132, per year	4.00	....
Pharmacy—		
1, per year	14.00	10.00
20	5.00	3.00
30	10.00	5.00
121	3.00	2.00
(Pharmaceutical Chemistry, see above.)		
Physics—Per laboratory credit	3.00	....
Psychology—		
10, 103, 104, 105, 115, each	2.00	....
Zoology—		
1a, 1b, 102a, 104b, each	5.00	.50
3, 105, 116, each	4.00	.50
9, 21, 90, each	2.00	.50
119	3.50	.50
110, 123, each	3.00	.50
104a	7.00	.50
111	10.00	.50
228	5.00	....
Thesis, $1.50 per laboratory credit.		
SCHOOL OF MUSIC—		
Concert fee (for academic year)	1.00	....
Choral Union fee (for academic year)	1.00	....
Applied Music, per semester:		
One-half hour of instruction once a week	20.00	....
One-half hour of instruction twice a week	36.00	....
Practice rooms, per semester:		
Organ, one hour daily	9.00	....
Piano, one hour daily	3.00	....
COLLEGE OF AGRICULTURE—		
Per laboratory credit	1.50	....
Breakage deposit, per course	....	2.00
Short Course, per term	3.50	2.00
Dairy Course, winter, per course	10.00	2.00
Summer, per course	5.00	2.00
COLLEGE OF ENGINEERING		
Assaying (Mining 121) per laboratory credit	5.00	....
Drawing 1, 2, each	1.00	....
Other courses, per laboratory credit	3.00	....
Laboratory thesis, per course	7.50	....

MEDICAL SCHOOL	Fee	Deposit
If microscope is used	....	$5.00
Anatomy—		
115, 122, each	$5.00	....
110	10.00	....
121, Dissection	15.00	2.50
126	8.00	2.00
Clinical Medicine—102-3-4, each	5.00	....
Pathology—first semester, 101	15.00	....
Second semester, 101	7.50	....
Medical Bacteriology—102	16.00	....
Immunity, 104	10.00	....
Pharmacology—102	4.00	1.00
105	15.00	2.50
Physiology—2	2.00	....
3	3.00	....
104	10.00	5.00
105	17.00	....
115	15.00	2.00
114	5.00	5.00
116	8.00	1.00

Other Charges

Extra fee for payment after registration days, see p. 84	$1.00
Men's gymnasium locker fee, including laundry, semester, see p. 85	2.00
Women's gymnasium costume, see p. 85	10.00
Women's gymnasium locker fee, including laundry, semester	2.00
Deposit with abstract of doctor's thesis	50.00
Binding baccalaureate or second degree thesis	1.00

For Extension Division charges, see special bulletins.

General Requirements

All charges must be paid at the beginning of each semester. Class cards will not be issued until this has been done.

Graduate students pay the same fees as undergraduate students in the College of Letters and Science, but honorary fellows and honorary scholars are exempt from the incidental fee.

Members of the teaching and research staff of the University, graduate fellows, graduate scholars, and members of the State Geological and Natural History Survey who are candidates for higher degrees, shall pay such fees as are prescribed for graduate students resident in Wisconsin. After any such candidate shall have paid to the University of Wisconsin in such fees a total sum equal to or greater than that usually paid in seven semesters of

candidacy by graduate students resident in Wisconsin, he shall be exempt from payments of such fees in subsequent sessions of the University.

Graduate students who are not members of the university staff of instruction or research and who in any semester pursue studies in amount less than half the normal amount may have their fees prorated in proportion to the amount of such study upon the following conditions:

(a) The recommendation of the Dean of the Graduate School to the Registrar that the case comes under the above rule and that he regards it as one of more than common merit;

(b) The prorated fee shall not be less in amount than the regular incidental fee for the semester.

An additional fee of one dollar per semester must be paid by students who pay their fees after the prescribed registration days. (See Calendar.)

Partial Fees and Refunds

Students entering after half a semester or term has elapsed pay half the prescribed tuition and fees.

The Bursar, upon recommendation of the Registrar, is authorized to refund to students withdrawing from the University, the proportion of any semester's tuition and fees indicated by the following table:

From first class day	Deduct per cent	Refund per cent
Until 2 weeks.....	20	80
Between 2 and 4 weeks.....	40	60
Between 4 and 6 weeks.....	60	40
Between 6 and 8 weeks.....	80	20

No refund after eight weeks.

Students entering after regular registration days and withdrawing within eight weeks from the first class day, upon recommendation made, will be allowed refunds according to the above table based on the time actually in residence.

Summer session refunds will be on the same proportional basis as refunds for the regular year.

The full amount of fees paid shall be returned to students who for some reason fail of admission to the University.

No claim for remission of fees will be considered unless such claim be presented during the fiscal year to which the claim is applicable.

Fellows, scholars, and student assistants are required to pay laboratory fees; instructors and assistants are exempt from such fees.

Gymnasium Practice and Military Drill

Freshmen and sophomores in the Colleges of Letters and Science and Agriculture and the Four-year Course in Pharmacy are required to take gymnastic exercises and military drill. Engineering freshmen and sophomores take drill; engineering freshmen take gymnastics. A locker fee, including laundry, of $2.00 per semester is charged.

Women are required to take gymnastic exercise during the first two years of their course. A uniform gymnasium costume is required and should be purchased in the fall in Madison. The cost in 1921 was about $10. A locker fee, including laundry, of $2.00 per semester is charged.

Room and Board

At the present time the only rooming facilities provided by the University are in Chadbourne and Barnard Halls for women, accommodating 266 students (for details see below) and in a cooperative house accommodating 24 women. Residents of the cooperative house are usually chosen from applicants who have attended the University at least one semester. Applicants should correspond with the Dean of Women. All other students are dependent for rooms upon private rooming houses, the Y. M. C. A. building, and the various fraternity, sorority, and club houses. The prices of single rooms outside the university buildings range from $4.00 to $6.00 a week. A few double rooms can be secured for $2.50 a week per student, but the more desirable ones rent at $3.00 to $4.50 per student.

Dining rooms are maintained in Chadbourne and Barnard Halls and the University operates a public cafeteria in Lathrop Hall. In private boarding houses and cafeterias board ranges from $6.50 to $9.00 a week.

The Dean of Men and the Dean of Women issue Rooming and Boarding House Directories, copies of which may be had on application. See p. 97-98.

Chadbourne and Barnard Halls

The two university women's dormitories, Chadbourne and Barnard Halls, are equipped with electric lights and electric ele-

vators. Heat is furnished from the central university heating plant.

Each room is provided with rug, dresser, rocker, three-quarter cot, study table, study chair, bookshelves and window shades. Occupants other than summer session students are expected to provide towels, sheets, pillow cases, blankets, and counterpanes or couch covers for the school year.

Women occupying these buildings are under the immediate charge of the Mistresses of the halls, and are expected to conform cheerfully to the requirements necessary for a family of students. Self-government is maintained.

In accordance with the act of the legislature of July, 1913, preference in the assignment of rooms in these halls is given to residents of the state of Wisconsin; of students outside the state, the daughters of alumni are given preference over others. Applications will be filled in regular order in accordance with this provision.

To give preference to members of the lower classes, the following apportionment is made:

Until September 1, the number of seniors, juniors, and sophomores to whom rooms in the halls are assigned is limited. Before September 1, no assignments are made to students not residing in Wisconsin. Beginning with September 1, any places available shall be assigned in the following order:

(a) To legal residents of Wisconsin, in order of their application, without regard to the class to which they belong.
(b) To daughters of Wisconsin alumni outside the state.
(c) To others.

Seniors and juniors resident in the halls, if they conform to the regulations as to residence in the state given above, will receive preference over those who are nonresidents.

Applications will be received in excess of the number of accommodations, and vacancies during the year will be filled in regular order from this waiting list.

The price for the college year of a single room in either Chadbourne or Barnard Hall is $100; of a room accommodating two, $75 per person; of two rooms in suite accommodating two, $100 per person. A few rooms in Barnard Hall (fifth floor) may be had for $75.

Residents of Chadbourne and Barnard Halls must take their meals in the hall in which they reside. In addition there are

accommodations in the dining rooms for a number of other women students. Board has been tentatively fixed at $216 for the school year of 36 weeks*, payable in quarterly installments in advance. Owing to uncertainty in prices this is subject to change. The halls are closed and no charge is made for board during the Christmas recess. The halls are open during the spring recess but dining rooms are closed and no board is charged.

Applications for rooms will not be received until after April 1. These should be made to the Bursar of the University and the student must state the class into which she will enter. A deposit of $10 must accompany the application.

The deposit will be credited on the rent of the room; but if the room is not taken it will be forfeited unless notification is received by the Mistress prior to September 1. Applicants must withdraw before September 1 unless willing to accept any room available at the later assignment, or forfeit the deposit if the room is not taken. Applicants should accept the rooms assigned to them either in writing or in person before the opening day of the school year or they will forfeit the room.

The balance due for rent must be paid to the Bursar not later than 10 days after the issuance of bills at the beginning of each semester.

All applicants are supposed to retain their rooms for the entire year. If it is necessary for a student to withdraw at the end of the first semester, the deposit fee will be refunded provided the room has been filled by the Mistress of the Hall from the waiting list.

If for any reason one of the occupants of a suite shall be obliged to give up her place in the suite, the remaining person may be required to take a single room if one is vacant, or to pay the price of the full suite during the time it is occupied by her alone.

Rooms are ready for occupancy the Saturday before the first registration day.

Average School Year Expense

It is difficult to give definite figures regarding expenses for the school year but the average is probably not less than $575. This would not include nonresident tuition or any laboratory charges.

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*This includes the time from the beginning of classes in September to the last day of examinations in June, exclusive of the Christmas and spring recesses.

The school year budget of an average student might include a combination of the following items:

Incidental Fee, year	$30.00	to	$30.00
Locker Fee, freshmen and sophomores	4.00	to	4.00
Women's gymnasium suit	8.00	to	10.00
Books and stationery	25.00	to	50.00
Room Rent	100.00	to	200.00
Board	216.00	to	300.00
Laundry	30.00	to	60.00
Incidental Expenses	50.00	to	150.00

*Nonresident tuition, $124.
Laboratory charges, depending on courses, see p. 81ff.

These figures estimate the cost to the *average* student; many students spend more or less. The Student Employment Bureau advises students earning their own way to come with at least $250 capital. (See also Self-support, below.)

Engineering students must be prepared to meet an expenditure of about $100 for laboratory fees, drawing instruments, and textbooks, at the beginning of the freshman year. For the second semester these expenses will be reduced to about $25. For subsequent years the fees for textbooks will be from $15 to $20 per semester.

Law students should provide themselves with the textbooks and books of selected cases designated in the program of instruction. The books required for the first year will cost about $35 and for the last two years, about $65.

Short Course and Dairy students' expense will be from $135 to $190 for the course, including room, board, laundry and books.

Summer Session budget items (6 week basis):

†Incidental Fee	$20.00	to	$20.00
Room Rent	15.00	to	30.00
Board	30.00	to	50.00
Books and Stationery	5.50	to	12.00
Incidental Expenses	5.00	to	40.00
Laboratory Charges (depending on course)	....	to	15.00

SELF-SUPPORT

Students who desire to attend the University on a *partially* self-supporting basis will find it possible. The University Y. M. C. A. supports a Student Employment Bureau at 740 Langdon street, Madison.

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*Provisions for remission of nonresident tuition in certain cases are given under "Wisconsin Legislative Scholarships," p. 89.
†Summer session fees are not remitted, either to residents or nonresidents, but students who withdraw before the close of the session are entitled to a refund, see p. 84.

Students who find it necessary to earn part of their expenses while at the University should communicate with the general secretary as soon as possible. The bureau is principally called upon to furnish stenographers, typists, clerks, waiters, dishwashers, janitors, and choremen. Owing to the numerous requests for places, the Bureau cannot promise positions to students in advance.

Women students who wish to secure work of any kind are requested to communicate with the Office of the Dean of Women, Lathrop Hall.

There are also a number of undergraduate scholarships and loan funds (see below). While every possible assistance is rendered self-supporting students they are advised not to enter the University without some available funds. It is also recommended that they plan to take more than the regularly specified time for the completion of a course.

UNDERGRADUATE SCHOLARSHIPS AND LOAN FUNDS

Wisconsin Legislative Scholarships*

Section 36.16 of the Wisconsin Statutes provides that:

"Any student who shall have been a resident of the state for one year next preceding his first admission to the University, or any student whose parents have been bona fide residents of this state for one year next preceding the beginning of any semester for which such student enters the University, shall be entitled to exemption from fees for tuition, but not from incidental fees in the University. Any student who shall not have been a resident of the state for one year next preceding his first admission to the University, except as above provided, shall not be exempt from the payment of the tuition fees until he shall have attended the University for four academic years; but if he shall have attended the University for one academic year and the next three years shall have been spent as a resident of this state; or if he shall have attended the University for two academic years and the next two years shall have been spent as a resident of this state; or if he shall have attended the University for three academic years and the next year shall have been spent as a resident of this state, he shall be entitled to exemption from payment of the tuition fees upon reentering the University. * * * The regents of the University may remit either in whole or in part tuition, but not incidental fees, to a number of needy and worthy nonresident students, not exceeding 8 per cent of the number of nonresident students

*These scholarships are available for graduates as well as undergraduates.

registered in the preceding year, upon the basis of merit, to be shown by suitable tests, examinations or scholastic records and continued high standards of scholastic attainment."

Wisconsin Scholarships

The Board of Regents has appropriated the sum of $5,000 for undergraduate scholarships to be known as the Wisconsin Scholarships, consisting of 50 scholarships of $100 each.

Applicants for the Wisconsin Scholarships must be first year students who can register as residents of Wisconsin; who are in need of financial assistance and who have shown worth and ability. The awarding of these scholarships is entrusted to the regular faculty committee on scholarships to whom application should be made.

Amelia E. H. Doyon Scholarships

The will of Mrs. Amelia E. H. Doyon, late of Madison, provided for a gift to the University of $5,000 to be known as the Amelia E. H. Doyon Student Aid Fund. The income from this fund is divided into two equal parts, designated as the Amelia E. H. Doyon Scholarships, which are to be given to young women in attendance at the University, to be selected by the Faculty. In making this selection the scholarship or standing of the persons selected and their need of financial help are both taken into consideration. Neither scholarship is to be bestowed on any young woman who has not been in attendance as a student at the University of Wisconsin for at least one year.*

Fannie P. Lewis Scholarship Fund

By the will of the late Fannie P. Lewis, of Watertown, Wisconsin, $10,000 was left to be held in trust by the University Regents. The annual income from this money is to be divided equally between two women students of the University who shall be selected by the Regents, on the recommendation of the Faculty. In making these recommendations both scholarship and need of financial assistance are to be considered.*

Christian R. Stein Student Aid Fund

By the will of the late Christian R. Stein, of Madison, a bequest of $1,000 was made to the University, the interest of which maintains a scholarship to be given by the Faculty to a student of the University who has been in attendance at least one year."

*For information address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin.

Mortar Board Scholarship

Mortar Board, a society composed of senior women, maintains an annual scholarship of $100 which is awarded to a woman student, the award being made on the basis of scholarship and need of financial assistance.***

Gamma Phi Beta Scholarship

The Gamma Phi Beta sorority, in 1911, established an annual scholarship of $100 for women students, to be awarded on the basis of scholarship and need of financial assistance.***

Kappa Kappa Gamma Scholarship

An annual scholarship of $150 is provided by the Kappa Kappa Gamma sorority for the assistance of needy and meritorious women students.***

A. J. Horlick Scholarship

In 1915 Regent A. J. Horlick established a scholarship of $225 which he increased to $250 in 1921. This is awarded in the College of Agriculture for special research on some phase of inheritance of disease resistance in plants.*

South American Scholarships

The Regents have made available to South American students three scholarships of $150 each.**

American Association of University Women Scholarship

In May, 1917, the Madison branch of the American Association of University Women made available a scholarship of $100 for a university girl, preferably one who has finished her junior year.***

The Rhodes Scholarships

A scholarship is of the value of £350 a year, and is tenable for three years subject to the continued approval of the college at Oxford of which the scholar is a member. Two scholarships are assigned to each state. The election for the 1924 scholarship will be held in December 1923. There will be no election in Wisconsin for 1923. The qualifying examination formerly required of all

*For information address College of Agriculture, The University of Wisconsin, Madison, Wisconsin.
**Address Secretary, Board of Regents, The University of Wisconsin, Madison, Wisconsin.
***For information address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin.

candidates is no longer held, and scholars will be selected on the basis of their collegiate or university record, supplemented, if necessary, by any further tests that the Committee of Selection may, in their discretion, impose. The following extract from Mr. Rhodes's will will indicate the qualities which are considered in the choice of candidates:

"My desire being that the students who shall be elected to the scholarship shall not be merely bookworms, I direct that in the election of a student to a scholarship regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports such as cricket, football and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness and fellowship; and (4) his exhibition during school days of moral force of character and of instincts to lead and to take an interest in his schoolmates, for these latter attributes will be likely in after life to guide him to esteem the performance of public duties as his highest aim."

For information address, Mr. Arthur B. Doe, Secretary, Wisconsin Committee of Selection for Rhodes Scholarships, 50 Sentinel Building, Milwaukee, Wisconsin.

The Zona Gale Scholarship

In June, 1921, the New York City branch of the Alumni Association of the University of Wisconsin established a scholarship of the value of $700 a year, for four years, to be known as the Zona Gale Scholarship, to be awarded to a student who has shown that he possesses special talent of an unusually high order, and who wishes to spend all his time in the University in pursuing courses which he thinks will develop his special talent, without being required to take other studies. The recipient of the scholarship is not required to satisfy the regular entrance requirements.

Kate Hughes Cleveland Scholarship

The University is under obligation to Catharine C. Cleveland, '94, of Chicago for a gift of $300, to be awarded as a scholarship for the academic year 1921-22 to some needy and meritorious woman student, and to be designated as the Kate Hughes Cleveland Scholarship.

Loan Funds and Student Aids

John A. Johnson Student Aid Fund

The University is indebted to the liberality of Hon. John A. Johnson, late of Madison, for a gift of $5,000 made in 1876, the

interest of which is lent to students. The principal of this fund now amounts to about $18,000. The sum obtained by one student in one year shall not exceed $50, and the total amount shall not exceed $200.*

Alexander H. Rogers Loan Fund

Through the generosity of the sons of the late Alexander H. Rogers, of Chicago, the sum of $1,000 from the estate of Mr. Rogers has been turned over to the University to be used as a loan fund for the assistance of needy students. By the terms of the gift no one student may secure more than $250 from this fund.*

Graduating Class Loan Fund

The class of 1900 gave to the University several hundred dollars, the profit of the Senior Class Play, as the nucleus of a loan fund for the aid of needy students, to which several succeeding classes have made substantial additions.*

Secretary's Loan Fund

The Secretary of the Regents in 1900 established a fund of $500 for the aid of meritorious students. Additions to the fund have been made by others. No loans shall exceed $50 in a single year, and the aggregate loans to any person shall not exceed $200.**

Emery Loan Fund

In 1900 a fund was started by Miss Annie Crosby Emery, formerly Dean of Women, which is lent to needy women students on recommendation of the Committee on Loans.*

College of Engineering Loan Fund

The College of Engineering Loan Fund was started in 1901 by members of the faculty of the College of Engineering. It has been added to at various times until it now amounts to about $800. It is used for the assistance of needy students in the College of Engineering.***

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*For information address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin.

**For information address Secretary, Board of Regents, The University of Wisconsin, Madison, Wisconsin.

***For information address Dean, College of Engineering, The University of Wisconsin, Madison, Wisconsin.

Self Government Association Loan Fund

The Self Government Association has established a loan fund for the assistance of women students in need of financial assistance. This fund now amounts to about $600.**

Chicago Association of Wisconsin Alumnae Loan Fund

In 1913 the Chicago Association of Wisconsin Alumnae donated a fund for loans to needy women students. Preference is given to juniors and seniors and no student may secure more than $50 from the fund.**

The Major Lyman C. Ward Memorial Loan Fund

In 1919 a gift of $100 was received for the establishment of the Major Lyman C. Ward Memorial Loan Fund; the money to be loaned to men students only and preferably to undergraduates.

Arthur End Music Loan Fund

In 1919 the Arthur A. End music loan fund was established as a memorial by his mother, Mrs. Mary B. End of Sheboygan, Wisconsin, with an initial payment of $100 to be loaned to students of music.

Agricultural College Loan Fund

In 1911 Albert B. Kuppenheimer, of Chicago, gave $750 to establish a loan fund in the College of Agriculture. In 1916 the outstanding balance of the Geneva Loan Fund was consolidated with the Kuppenheimer fund, making a total of $1,500. This is loaned to needy students in small amounts with interest at 6 per cent, after maturity.***

Class of 1914 Loan Fund

The Class of 1914 established a loan fund, each senior paying $2 a year for five years. The fund now amounts to approximately $1,000.

Class of 1885 Loan Fund

In March, 1916, the class of 1885 established a loan fund, the initial remittance amounting to $58 increased in 1917 to $68; the money to be loaned to needy students.**

**For information address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin.

***For information address Assistant Dean, College of Agriculture, Madison, Wisconsin.

University League Loan Fund

In March, 1916, the League of University Women established a loan fund, the initial remittance amounting to $50. The fund has since been increased to $250, the money to be loaned to needy students.*

Class of 1916 Memorial Loan Fund

The Class of 1916 established a loan fund now amounting to approximately $900. Principal and interest are to be loaned to students for periods of not to exceed one year; not more than $50 to one person. Three per cent interest is to be charged, with six per cent after maturity. No distinction is made between colleges or classes.*

Kuppenheimer Loan Fund

Mr. Albert B. Kuppenheimer, of Chicago, donated $1,000 in December, 1916, to establish a loan fund open to all students under the following conditions:

1. Loans not to exceed one year;
2. Joint signatures of responsible parties required;
3. Interest, only after maturity, 6 per cent;
4. Administration to be in the hands of the general university loan committee.*

Archibald W. Case Loan Fund

In 1916, J. F. Case established the Archibald W. Case Loan Fund for engineering students, in memory of his son. The fund now amounts to $3,000 and will be increased to $5,000 by the addition of $500 annually.**

PRIZES

Lewis Prize

In 1865, Governor James T. Lewis gave $100 and in 1866 another $100 to constitute a fund the income of which was to purchase an annual scholarship medal. In 1873 with the consent of the donor, it was decided to use the income as a prize for the best undergraduate essay. In 1905, the fund having grown to over $300,

*For information address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin.
**Address Dean, College of Engineering, The University of Wisconsin, Madison, Wisconsin.

the Regents in recognition of this having been the first permanent endowment given to the University established the "Lewis Prize," consisting of $25 annually, any deficiency in the income of the fund, which now amounts to about $600, is to paid from the general account of the University. The prize is awarded to that member of the freshman class taking full work and regularly enrolled in a freshman course in English who shall write the best theme, under conditions determined by a committee of the instructors in English 1 and English 12. The prize for 1920-21 was held by Earl R. Plettner.

Mitchell Prize

In June, 1921, Mr. William M. Chester of Milwaukee, offered a gold medal in memory of John Lendrum Mitchell, to be awarded annually for the best essay on industrial relations.

Bryan Prize Fund

In 1899 William Jennings Bryan presented $250 to the University, the income to be used as a prize for the best essay on *The Science of Government*. The fund now amounts to $400 and is accumulating until such time as the income shall reach $25.

William F. Vilas Medal and Prize Fund

In 1910-11 and again in 1911-12, Anna M. Vilas gave $125 for medals for intercollegiate debating and oratory. In June, 1912, to make this annual gift permanent, she turned over $4,000 to the Central Wisconsin Trust Company of Madison, the annual income to be used as follows:

First: $125 for seven medals in oratory, to be known as the William F. Vilas Medals for Oratory. The Department of Speech has charge of the administration of these prizes.

Second: Two cash prizes for essays—one of $50 and one of $25, to be known as the William F. Vilas Prizes for Essays. The English Department posts annually the conditions of competition on various bulletin boards.

HONORS

Special honors will be awarded at graduation to such students as have prepared theses of exceptional excellence. For medals awarded for exceptional theses, see page 102.

Sophomore and senior honors are awarded in the College of Letters and Science. See page 141.

GRADE POINT SYSTEM

Under the grade point system, as many points are required for graduation as credits. For grade A, three points are awarded for each credit; for grade B, two points; for grade C, one point; for grade D, no points. For the special regulations in Letters and Science, see page 138.

The maximum number of points that can be secured by a student graduating in a course which requires, for example, 120 credits, is 360; the minimum, 120. It is evident that an average grade of C is necessary for graduation. Students who, by reason of grades of D, fall behind in the required number of points, are ineligible for graduation. By use of points students may readily determine the quality of progress they are making in their course.

AUDITORS

Regular students may enter classes as auditors, subject to the approval of the adviser and of the instructor whose class is visited. Auditors are under no obligation of regular attendance, preparation, recitation or examination, and receive no credit toward graduation. Others may be admitted as auditors only with the consent of the dean. They are required to register, to pay the regular fees, and to have class cards for the courses they elect to attend.

SUPERVISION OF STUDENT LIFE

A booklet of "Regulations for the Guidance of Undergraduate Students" is published and distributed annually, containing specific instructions concerning registration, fees, advisers, election of studies, requirements, the grading systems, the regulations concerning social life, public exhibitions, eligibility for student activities, admission into fraternities, and information concerning student self-government. The Dean of Men publishes a directory of lodging and rooming houses for men students, with detailed information. The Y. M. C. A. publishes a booklet of useful information on many matters of interest to students. Any of these books will be sent upon request.

The Faculty Committee on Student Life and Interests has general supervision over all organized student activities, and its chairman, the Dean of Men, is available for correspondence and

consultation regarding student affairs at all times. He will also gladly confer with parents or guardians regarding individual students (men).

The academic and social welfare of women students is under direct supervision of the Dean of Women. For the benefit of those women who are not accommodated in Chadbourne and Barnard Halls (see p. 85), she has prepared a directory of rooming and boarding houses. All houses listed have been inspected by her, and though responsibility for them cannot be assumed by the University, they are believed to be suitable homes for women students. A copy will be sent on application.

Women students are expected to occupy rooms only in such lodging houses as accommodate women exclusively, and in which a parlor is provided for the reception of visitors. Exceptions are made only by permission of the Dean of Women. The houses on the prepared list meet these requirements. All arrangements must be made directly with the persons mentioned in the list, and should be made early by those who desire a wide choice of rooms. All women students are required to report to the Dean of Women to register their addresses, and to be directed, if rooms have not been secured. All changes of address should be reported promptly.

Lathrop Hall, a commodious building for the use of the women of the University, provides, in addition to a finely equipped gymnasium, restaurant and rest room, a meeting place for student organizations, and a center for the social life of the University.

Miss Louise Nardin, the Dean of Women, and her staff of assistants invite correspondence with parents and guardians, and gladly cooperate with them regarding the welfare of students.

The legislative organs of student self-government are the Men's Student Senate, and the Women's Self-Government Association; the judicial bodies are the Student Court, and the Women's Judiciary Committee.

The Student Senate of 17 members, by charter, is the general representative and legislative body of the male students. It has general supervision over all men's activities. By joint committee the Senate and the Women's Self-Government Association have charge of all matters in which the interests of both men and women are involved, except as these matters affect scholastic interests or intercollegiate relations; these latter interests are under the control of the Committee on Student Life and Interests.

Every woman student in the University is *ipso facto* a member of the Self-Government Association. The object of the association is, in its own words: "To regulate all matters pertaining to the student life of its members which do not fall under the jurisdiction of the Faculty; to further in every way the spirit of unity among the women of the University; to increase their sense of responsibility toward each other, and to be a medium by which the social standards of the University can be made and kept high." Each hall of residence, each sorority house, each lodging house, where more than ten girls reside, and each section of Madison, where girls are living at home, has a representative on the board. The association each year provides entertainment of various sorts for university women, adds a small sum to the loan fund for girls, and undertakes, under direction of an assistant in the office of the Dean of Women, a vocational conference for the purpose of presenting to the women students various occupations and professions. A bulletin of information for women is also published.

The Student Court, the outgrowth of a pledge to abolish hazing given in October, 1909, by the former Student Conference and the student body, operates under a charter granted by the Faculty and approved by the Board of Regents. The chief duties and powers of the Court, as stated in the charter, are: "To maintain good order throughout the male student body, and to enforce university regulations within its jurisdiction."

The Women's Judiciary Committee of the Self-Government Association has powers and duties, where women students are concerned, identical with those of the Student Court.

Student Advisers

Upon entering the College of Letters and Science, the College of Engineering, or the College of Agriculture, each student is assigned to a member of the Faculty, who acts as his adviser. Each semester the student is required to consult his adviser concerning the choice of studies, and the adviser must give his approval before the student is permitted to enter classes. It is the duty of the adviser to guide the students under his care in all matters concerning their university courses; to see that all rules relating to required or elective studies, promotion, and graduation are strictly complied with; and, in general to aid students in obtaining the greatest individual profit from their university courses. There are no student advisers in the Law School.

Professor C. D. Cool acts as special adviser for foreign students.

Student Health

The Department of Clinical Medicine has general supervision of the health of the students. It aims to determine the medical fitness of each student entering the University, to study the intricate problems of the relation of health to higher education, and to prevent disease among the students by attempting to correct proved errors in present educational practices and in the life of the individual.

Medical Examinations.—Students entering the University for the first time undergo a careful medical examination to determine their fitness for university work. An appointment for medical examination is made at the time of registration. This appointment must be met promptly. Records of the results of these examinations are kept in the office of the Department of Clinical Medicine for future reference in the supervision of the mental and physical development of the student. Recommendations are made to the deans relative to the general health, and in the case of those required to take physical education, to the Department of Physical Education relative to the physical condition of the student.

In addition to this routine medical examination, which includes an examination of the heart, lungs, and other vital organs, together with tests for vision and hearing, those entering the freshman and sophomore classes are given physical efficiency tests by the Department of Physical Education.

The Medical Adviser's Office is established for the general supervision of students needing medical attention. It is earnestly desired that all cases of student illness be promptly reported to this office whether professional service is desired or not. At the same time students should feel free to seek advice concerning the care of their health. A careful examination is made of the physical condition and the functional activity of those who consult the members of the staff, and where it seems advisable, the family physician is notified for future advice and consultation.

Conditions affecting the general welfare of the university community are treated by the members of the staff, but students requiring special care—major surgery, treatment of the eye, ear, etc.—are referred to specialists.

A modern and completely equipped infirmary is maintained by the University for the care of students requiring medical and surgical treatment and for the isolation of those suffering from

communicable diseases. Cases requiring special methods of study and treatment are cared for by the University Medical Staff in the Mary Cornelia Bradley Memorial Hospital.

SOCIETIES AND PUBLICATIONS

Literary, Forensic, Dramatic, and Musical Societies

The men's literary societies are: Athena, organized in 1850; Hesperia, organized in 1854; Philomathia, organized in 1866, and the Agricultural Literary Society.

These societies are interested principally in debating; the first three maintain a Joint Debate League, which arranges an annual public debate between two of the three societies. The one of these three societies not in the joint debate each year holds a debate with the Agricultural Literary Society. The joint debate has been a feature of the University for nearly fifty years, and interest in it has kept alive men's debating societies long after such organizations have passed away in most universities.

The women have two literary societies: Castalia, organized in the early years of the University, and Pythia, organized in 1902. Most of their time is devoted to more general literary pursuits and less exclusively to debating.

The University is a member of the Midwest Debating League, composed of the Universities of Michigan, Illinois and Wisconsin. Each university meets the others in debate annually. From time to time, additional intercollegiate debates, chiefly with neighboring state universities, are arranged. Wisconsin regularly competes in the annual contest of the Northern Oratorical League, composed of the Universities of Illinois, Iowa, Michigan, Minnesota, Northwestern, and Wisconsin.

Positions on university debating teams and the privilege of representing the University in intercollegiate oratorical contests are won in open competition, any undergraduate in good standing being eligible.

Of the four dramatic clubs of the University, the Haresfoot Club and the Edwin Booth Dramatic Club, both men's organizations, present annually an original musical comedy and at least one legitimate drama, respectively. The Red Domino Club and the Twelfth Night Club, the women's organizations, besides giving annual public performances of both original and standard plays, practice privately through the year.

The university musical organizations are: The Choral Union, the University Regimental Band, the University Orchestra, the Men's Glee Club, and the Girl's Glee Club.

Research, Professional and Honorary Societies

The Language and Literature Club, including both faculty members and advanced students, has been organized to promote scientific study and research in its field. This organization awards a gold medal annually for the best baccalaureate thesis in its field.

Journal clubs or societies for the furthering of the special work of the departments exist in various departments of the University. Among these are, the *Nora Samlag*, the Romance Language Club, the Pharmaceutical Society, the Classical Club, the Physics Journal Club, the Biological Club, and the Chemical Club. In other departments, where no such organization has been effected, like results are reached by means of the various seminaries. In the technical colleges and courses similar societies are maintained: The Civil Engineering Society, the Electrical Engineering Society, the American Society of Mechanical Engineers, the U. W. Mining Club, the U. W. Engineers' Club, the U. W. Chemical Engineering Society, the Commercial Club, the University Press Club, the Scoops and Cubs Clubs, Agri-ink, the Geology Club, the Grafters' Club, the Advertising Club, the Country Life Club, the Euthenics Club, and the Live Stock Club. The graduate students of the University maintain a Graduate Club.

The honorary fraternities are: Phi Beta Kappa, established in 1898; Phi Kappa Phi, established in 1920; Tau Beta Pi, honorary engineering fraternity, established in 1899; Alpha Zeta, agriculture, 1906; Phi Lambda Upsilon, chemistry, 1906; Sigma Xi, science, 1907; Eta Kappa Nu, electrical engineering, 1910; Sigma Delta Chi, men's journalism, 1911; Theta Sigma Phi, women's journalism, 1910; Beta Gamma Sigma, commerce; Delta Sigma Rho, intercollegiate oratory and debate; Sigma Sigma, medicine; Artus, economics; Pi Tau Sigma, mechanical engineering; Omricon Nu, home economics; Chi Gamma Pi, civil engineering; Scabbard and Blade, military science, and Alpha Gamma Pi, women's honorary commerce sorority.

Social and Religious Organizations

The social life of the undergraduate finds expression in more than one hundred fraternities, societies, clubs, and class organiza-

tions. The Wisconsin Union, one of the most important of the men's organizations, consists of every male student in the University. No dues nor fees are charged. The Union is active in promoting the social welfare of the student body, and has charge of the annual Union Vodvil, the quadrennial University Exposition, the musical artists series, and numerous smaller social gatherings.

The most important religious organizations of the University are the Young Men's Christian Association and the Young Women's Christian Association. The Y. W. C. A. maintains one, and the Y. M. C. A. four secretaries who devote their entire time to religious, social, and philanthropic work among the students. Seven student pastors supported by as many religious denominations, each with its own student organization, cooperate with the secretaries and promote Christian work in the student body in a very systematic way.

Publications of the University

The University of Wisconsin Studies are published bimonthly at Madison, and contain original papers by persons connected with the University. More detailed information regarding these and other publications may be obtained on application to the University Editor.

The General series of the Bulletin of the University of Wisconsin includes the annual catalogue, special announcements of the various schools and colleges, etc. A directory of officers and students is issued early in each academic year, and a general catalogue of officers and graduates is published once in five years if funds are available, the last having been issued in 1921.* Apply to the Registrar for copies of the publications.

The High School series comprises a number of manuals designed to assist secondary school teachers in the subjects of the high school curriculum. Refer to the Committee on High School Relations.

From the Washburn Observatory are issued the Publications of Washburn Observatory; from the Agricultural Experiment Station, bulletins and annual reports; and from the office of the Farmers' Institute, the Wisconsin Farmers' Institute Bulletin.

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*This includes the classes 1849-1919.

Student and Alumni Publications

Student publications include the Daily Cardinal; the Wisconsin Literary Magazine, the Octopus, the Wisconsin Engineer, the Wisconsin Country Magazine, and Commerce, all published monthly; and the Badger, the junior class annual. The Alumni Association publishes the Wisconsin Alumni Magazine.

ADMISSION

METHODS

Undergraduate students are admitted:

1. Upon examination at the University. (See p. 117.)
2. Upon certificate. (See p. 117.)
3. Upon evidence of their standing in other institutions of higher learning. (See p. 119.)
4. As adult special students. (See p. 124.)

Students may enter at the opening of either semester or at the beginning of the summer session. There are advantages in beginning work at the latter time. The student becomes acquainted with university methods of instruction, and his experience and the advice of his instructors will help him in planning his work for the regular session. For courses offered, see Summer Session.

Credentials should if possible be filed with the Registrar before August first. It is obligatory on entrance to submit records from *all* schools previously attended.

Entrants are advised to present themselves several days in advance, in order to make all necessary arrangements. An additional fee is required for late registration. (See p. 84.)

ENTRANCE REQUIREMENTS

Entrance requirements are stated in terms of units.* A *unit* equals five recitations a week for one year of at least 36 weeks in one branch of study. Two laboratory periods in any science or vocational study are considered equivalent to one class exercise. In closely allied branches not usually taught in periods of one year each, such as botany and zoology, units may be constructed by adding the respective time value of such studies. Three recitations a week for a year and a half may be counted as one unit.

Fifteen units are required for admission. Not more than four are accepted in any one subject. Entrants offering only one for-

*A "unit" is not to be confused with a "credit," the University measurement of work (See definition of credit on p. 127).

eign language must have at least two units. They must have two units in one foreign language before one unit in another language may be credited. But in exceptional cases one unit in a single foreign language may be offered as an "optional subject."

I. The following units are required of all:

English.....3 or 2 units
(At least three units of English are recommended for all and will be required of students who do not offer two units of one foreign language.)
Mathematics
*Algebra.....1 unit
Geometry.....1 unit

II. Two units must be presented from *one* of the following:

One foreign language.....2 units
(French, German, Greek, Hebrew, Italian, Latin, Norse, or Spanish).
or Science.....2 units
or History.....2 units

III. In addition to the units required under I and II, a sufficient number of units to make a total of fifteen must be offered from Groups A and B, except that not more than four units may be offered from Group B.

GROUP A

English	1-2	**Mathematics**	
Foreign Language		Adv. Algebra	½
French	1-4	Solid Geometry	½
German	1-4	Trigonometry	½
Greek	1-3		
Hebrew	1-2	**Science**	
Italian	1-2	Botany	½-1
Latin	1-4	Biology	1
Norse	1-2	Chemistry	1
Spanish	1-4	General Science	½-1
		Geography	½-1
History and Civics		Physics	1
History	1-4	Physiology	½
Civics	½-1	Zoology	½-1
Economics	½		

GROUP B

Agriculture	1-4	Domestic Art	1-2
Bookkeeping	1	Drawing, Art and Design	1-4
Commercial Law	½	Mechanical Drawing	1-4
Commercial Arithmetic	½	Shop Work	1-2
Commercial Geography	½	Shop Work and Drawing	1-4
Shorthand	1-1½	Music	1
Typewriting	½	Optional	½-1
Domestic Science	1-2		

*College of Engineering, 1½ units.

Advised Grouping of Preparatory Subjects

Students are advised to adapt their preparatory work to the course they expect to pursue in the University. Attention is called to the admission requirements of the various colleges and courses, and to the statements of the several departments covering the preparation best adapted to the work of each. Students expecting to go to the University, who are uncertain as to the college in which they will take their work, are advised to distribute 12 of the 16 units of the high school course as follows:

English, at least.....3 units
Mathematics, at least.....2 units
Science, at least.....2 units
Foreign Language.....2, 3 or 4 units
History, at least.....2 units

If less than four foreign language units are offered, units of English, history, science, or mathematics should replace them.

Entrance Requirements of the Several Colleges, Schools and Courses

COLLEGE OF LETTERS AND SCIENCE.

Four units* under I, two units under II, and nine units under III, will admit to the following:

1. **Bachelor of Arts Courses** (General Course, Humanities, Course in Commerce and Course in Journalism). Foreign language graduation requirements are 32 credits in high school and college.**

2. *Bachelor of Science Courses* (Course in Chemistry, Medical Science Course, and Four-year Course in Pharmacy).

   Course in Chemistry—foreign language graduation requirements are 24 credits in French and German.

   Medical Science Course—24 credits including Latin and French or German.

   Four-year Course in Pharmacy—24 credits including one year of French and two years of German or their equivalents. Two units of foreign language should be offered for entrance.

   Medical Science Course—Students are advised to present Latin and a second foreign language (Greek, French, or German) to the amount of at least six units.

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*Five units if no foreign language is offered.
**A unit in high school equals four credits.

3. *Course leading to the degree of Ph.B.* (*General Course*). No foreign language required.
4. *Course leading to the degree of Ph.B.* (*Course for Normal School Graduates*). Requires graduation from a state normal school. (See further p. 136.)
5. *Course leading to the degree of Bachelor of Music.* Same as B.A. courses.
6. *Two-year Course for Supervisor of Music Certificate.* No foreign language required.
7. *Two-year Course in Pharmacy.* No foreign language required.

COLLEGE OF AGRICULTURE.

Four units* under I, two units under II, and nine units under III, will admit to the following:

1. *Bachelor of Science Courses* (Long Course, no foreign language required, Course in Home Economics, and Four-year Vocational Course for the Training of Teachers in Home Economics). Two years of high school foreign language and one or two in college.
2. *Graduate in Agriculture* (Middle Course). No foreign language required.
3. *Graduate in Home Economics* (Two-year Course for Training Vocational Teachers in Home Making). No foreign language required.

Short Course. Students must be at least 16 years of age and have a good common school education. No entrance examinations are required.

Dairy Course—(Winter). Same as for Short Course except candidates must have had at least 6 months' experience in a creamery or cheese factory before entering. (Summer and Special). No previous experience required.

Farmers' and Women's Weeks. No examinations are required. Candidates for the Farmers' Course must be at least 25 years of age.

COLLEGE OF ENGINEERING.

English.....3 or 2 units
(Three units of English will be required of all students who do not offer two units of one foreign language.)
Algebra.....1½ units

*Five units if no foreign language is offered.

Plane Geometry.....1 unit
Foreign Language, Science, or History.....2 units
and additional units to total 15 from III.

Students deficient in advanced algebra who meet the entrance requirements for the College of Letters and Science will be admitted to the College of Engineering, but must make up the deficiency during the first semester, special classes being provided.

Advised Preparation for Engineering Courses

Students planning to enter the College of Engineering are advised to take the following high school work as a part of the sixteen units required for entrance.

English, at least.....3 units
Algebra .....1½ units
Plane Geometry.....1 unit
Solid Geometry..... ½ unit
Science .....2 units
Foreign Language.....2, 3, or 4 units
History .....2 units

LAW SCHOOL. (1) Candidates for a degree: Credits equivalent to the first two years of the College of Letters and Science. (2) Not candidates for a degree: Four units* under I, two units under II, and nine units under III, provided entrants are at least 21 years of age. (See Law School Bulletin.)

LIBRARY SCHOOL. Completion of a high school course or its equivalent and also a special examination of all candidates.

MEDICAL SCHOOL. (1) Satisfaction of Letters and Science entrance requirements. At least two years of preparatory Latin are recommended. (2) Equivalent of two years' work in that college, which should include successful completion of: (a) Laboratory courses of college grade in physics, chemistry and biology; and (b) courses in English, German, French, or Latin. Elementary Latin and a reading knowledge of French or German are required. (See Medical School Bulletin.)

Scope of Preparatory Work

The following description serves to indicate the extent of the preparation expected in each of the several subjects named in the preceding requirements for admission:

*Five units if no foreign language is offered.

ENGLISH

ENGLISH. 2, 3 or 4 units. Candidates for admission must present two units in English, one in composition, and one in the reading and study of English classics. These two units correspond to the work of the first two years of the standard high school course, in which half of the time is devoted to theme-writing and instruction in composition, and half to the detailed study of a number of English classics. At least three units in English are recommended, the third unit to consist of additional work in composition, and either (1) an outline history of English or American literature with the reading and study of selections of each period, or (2) the intensive study of a few typical examples of the novel, the drama, the lyric, and the essay. Four units of English should include composition, and both (1) and (2) given above, in addition to the two required units.

THE TWO UNITS REQUIRED OF ALL

Composition and Rhetoric. Practice in theme writing with instruction in the principles of composition and the forms of discourse must form an important part in each unit of English presented for entrance. Every entrant is examined as to his ability to express himself in clear, correct, idiomatic English. The test consists in writing several essays on familiar subjects, in which the student plans his work by paragraphs, and constructs both paragraphs and sentences in accordance with the simpler principles of composition. No student will be passed in this test and permitted to pursue the course in Freshman English whose work shows serious weakness in spelling, punctuation, grammar, sentence construction, or division into paragraphs. Facility of expression will not be sufficient to offset marked deficiency in these respects. A more detailed statement of the requirements for admission to the Freshman English course is given in University Bulletin, High School Series, No. 13. Students deficient in English composition must make up such deficiency in one year or be dropped from the University. The University provides a course for such students.

Reading and Study of English Classics. The two units required in English must include the thorough study of at least ten of the English classics on the list of uniform college entrance requirements in English, or their equivalents. The primary aim of the

study of these selections should be the interpretation of the works as independent units; other considerations, such as form, biography, literary history, or critical comparisons though they should not be neglected should be kept subsidiary to this main object.

UNITS IN ADDITION TO THE TWO REQUIRED OF ALL

History of English and American Literature. 1 unit. In addition to the required units in English one unit in the history of English literature or in the history of English and American literature may be presented. The greater part of the time should be devoted to the reading of selections from representative authors of each period. In the study of the history of literature, which should occupy no more than one-quarter of the time, emphasis should be placed on general movements and tendencies as shown in the selections studied. In the history of English literature characteristic selections from most of the following authors should be read: Chaucer, Shakespere, Bacon, Milton, Pope, Addison, Goldsmith, Gray, Burns, Scott, Wordsworth, Coleridge, Keats, Shelley, Tennyson, Browning, Lamb, George Eliot, Dickens, and Thackeray. In American literature, selections from the following: Longfellow, Whittier, Bryant, Holmes, Irving, Hawthorne, Cooper, Poe, Lowell, and Emerson. A study of the principles of composition and practice in theme-writing must be included in this unit.

Advanced Study of Classics. 1 unit. Besides the two units of required work, which include the reading and study of English classics, students may offer one unit representing advanced work in the study of literature. This should consist of an intensive study of typical examples of the novel, the drama, the lyric, and the oration or the essay. At least one work from each of the following four groups should be included: I. (a) Thackeray's *Henry Esmond;* (b) Hawthorne's *The House of Seven Gables;* (c) Dickens' *A Tale of Two Cities;* (d) George Eliot's *Silas Marner.* II. Shakespere's (a) *Macbeth,* (b) *Hamlet* (c) *King Lear.* III. Palgrave's *Golden Treasury* (First Series), (a) Books ii and iii, or (b) Book iv; (c) Milton's *Lycidas, L'Allegro* and *Il Penseroso.* IV. (a) Burke's *Speech on Conciliation;* (b) Webster's *First Bunker Hill Oration,* and Washington's *Farewell Address;* (c) Macaulay's *Life of Johnson, Essay on Milton;* (d) Carlyle's *Essay on Burns.* A study of the principles of rhetoric, with frequent and systematic theme-writing, must form a part of this unit.

MATHEMATICS

ALGEBRA. 1 or 1½ units. The one required unit should include: Addition, subtraction, multiplication, division, equations of the first degree with one unknown number, simultaneous equations of the first degree, including the graphical solution of a pair of linear equations with two unknowns, factors, highest common factor, lowest common multiple, solution of quadratic equations.

An additional half year of algebra is strongly recommended for all students and is required of engineering students. The work should cover: Simultaneous quadratic equations; ratio, proportion and variation; elementary theory of exponents and radicals; the theory of quadratic equations; graphical representation of simple relations between two variables; binomial theorem for positive integral exponents; logarithms, including use of tables in simple numerical work; arithmetical and geometrical progressions.

GEOMETRY. 1 unit, plane geometry.

An additional half year of *solid geomctry* is strongly recommended for students who expect to enter the College of Engineering.

TRIGONOMETRY. ½ unit. The fundamental properties of the trigonometric functions, the addition theorem and the more important formulas which follow from it; the solution of the various cases of right and oblique plane triangles; the use of logarithmic and trigonometric tables.

Additional Credit. ½ to 1 unit for work in algebra, trigonometry, surveying, or other mathematics; total credit not to exceed 4 units.

HISTORY, CIVICS, AND ECONOMICS

HISTORY. 1, 2, 3, or 4 units. History may be offered in the following "blocks:"

Ancient History, 1 unit.

Ancient and Medieval History, 1 unit.

European History to approximately the end of the 17th Century, 1 unit.

Medieval and Modern History, 1 unit.

Modern European History, 1 unit.

English History, 1 unit.

United States History, 1 unit.

One, two, three or four blocks may be presented. A real equiva-

lent may be presented in place of a block recommended above, but a one year's course in general history will not be accepted.

CIVICS. ½ or 1 unit. This may comprise the study of government in its relation to either the local community or the nation, or both. It may be combined with history or economics in the construction of an elective unit.

ECONOMICS. ½ unit. A knowledge of the fundamental principles of economic science as presented in a good elementary treatise.

SCIENCE

BOTANY. 1 unit. A study of the life histories of types from the main groups of plants, with a series of simple physiological experiments. At least two-thirds of the course should consist of laboratory work. For further details see the report of the committee of the Wisconsin State Teachers' Association for 1902 on a high school course in botany.

If impossible to give a full year's work to the subject, botany may be combined with physical geography, physiology and zoology to construct units.

CHEMISTRY. 1 unit. A study of the more common elements and their compounds. This course should include about four or five actual hours of work a week in the laboratory, and two or three periods a week in the classroom throughout the year.

Two laboratory periods are considered as equivalent to one class exercise. A laboratory notebook must be kept.

PHYSICS. 1 unit. Not less than three classroom periods a week, and not less than four actual hours of work a week in the laboratory. A record of all work done should be kept in a notebook. Any standard textbook may be used.

PHYSICAL GEOGRAPHY. 1 unit. To include: (1) The principles as presented in the best recent textbooks, which give adequate treatment of the atmosphere and ocean, and emphasize the development and influence of topographic forms. (2) Field study adapted to the locality; every candidate must submit a statement of the field trips taken by him. (3) The interpretation and habitual use, in the laboratory, of topographic maps, weather maps, charts, and pictures.

If impossible to give a full year's work to the subject, physical geography, botany, physiology and zoology may be combined to construct units.

PHYSIOLOGY. ½ unit. Human anatomy, histology, and physiology, and the essentials of hygiene. The textbook work, equivalent to that given in Martin's *The Human Body, Briefer Course*, must be illustrated by charts and models, and supplemented by anatomical demonstrations and chemical experiments.

ZOOLOGY. 1 unit. Laboratory work (at least two-thirds of the course), with careful descriptions and drawings. Class exercises based on any standard textbook.

LANGUAGES

GREEK. 3 units. (1) Grammar and elementary book; (2) Xenophon's *Anabasis*, four books; Greek composition; (3) Homer's *Iliad*, six books or an equivalent amount of the *Odyssey*; Greek composition.

2 units. (1) and (2) above.

1 unit. (1) above.

LATIN. 4 units. (1) Grammar and elementary book; (2) Caesar, books I-IV; (3) *Cicero*, six orations (selections from the letters may be substituted for two orations); (4) *Virgil*, six books; composition, preferably in connection with *Caesar* and *Cicero*.

These requirements are planned with special reference to the needs of those candidates who propose to continue the study of ancient or modern languages or of history.

3 units. (1), (2) and either (3) or (4) above.

2 units. (1) and (2) above.

1 unit. (1) above.

Real equivalents will be accepted for any part of these requirements, such as Rolfe and Dennison, *Latin Reader*, or Sanford-Scott, *Second Latin Book*.

GERMAN. 1 unit. (1) Correct pronunciation; (2) grammar equivalent to Manfred's *Ein praktischer Anfang* (23 lessons), Spanhoofd's *Elementarbuch* (24 lessons), or Bacon's *New German Grammar* (50 lessons); (3) about 50 pages of easy prose; (4) ability to translate from German into English and vice versa, and to answer simple German questions in German.

2 units. (1) Fluent pronunciation; (2) elementary grammar completed; (3) about 75 of the more usual strong verbs; (4) 200 pages of reading, chiefly modern prose, but including simple poems and possibly a short play. (5) See (4) above.

3 units. The work for 2 units, and (1) further grammar and syntax study; (2) at least 200 pages of prose and verse, partly as

outside reading reported on for content only; (3) constant oral and written practice.*

4 units. The work for 3 units, and (1) at least 400 pages of standard literature in prose and verse partly as outside reading as above; (2) increasing attention to literary appreciation and biographical and historical background; (3) ability to understand ordinary modern German texts, to write simple topics relating to them and to converse on them in German; (4) to follow recitations conducted in German.*

FRENCH. 1 unit. (1) The elements of grammar as found in the first part of usual French grammars; (2) about 100 pages of simple French—emphasis on correct pronunciation.

2 units. The work for one unit, and (1) a review of the grammar covering all the most common irregular verbs; (2) 200 pages of simple French.

3 units. The work for 2 units, and (1) at least 400 pages of French chosen from nineteenth century classics; (2) considerable work in oral and written composition.

4 units. In addition to the work for 3 units, one year of high school work including: (1) at least 500 pages of classic and modern French literature; (2) ability to write a short French composition and to show understanding of a simple lecture in French by answering questions upon it in the same language.

> For detailed information as to grammars, texts, etc., see *A Four-Year High School Course in French* which may be obtained on application to the Department of Romance Languages.

ITALIAN. 1 unit. (1) The elements of grammar; (2) 200 pages of easy Italian—emphasis on correct pronunciation.

2 units. (1) Correct pronunciation; (2) ability to translate freely simple Italian texts; (3) an accurate knowledge of the grammatical principles of the language, and of its regular verbs; (4) about 500 pages of text.

SPANISH. 1 unit. (1) The elements of grammar; (2) 100 pages of easy Spanish—emphasis on correct pronunciation.

2 units. (1) Correct pronunciation; (2) ability to translate freely simple Spanish texts; (3) an accurate knowledge of the

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*Approximately corresponding to the "elementary," "intermediate" and "advanced" courses as outlined in the *Report of the Committee of Twelve* (D. C. Heath & Co., Boston; price 16c). See also the *High School Course in German*, No. 2, of the High School Series of the Bulletin of the University of Wisconsin. (Chairman, Committee on High School Relations, University of Wisconsin, Madison, Wisconsin.)

grammatical principles of the language, and of its regular verbs; (4) about 300 pages of text.

The work in grammar should be approximately that found in any standard Spanish grammar. The student should be taught the Castilian pronunciation.

3 units. The work for 2 units, and (1) at least 400 pages of Spanish chosen from nineteenth century authors; (2) considerable work in oral and written composition.

4 units. The work for 3 units, and one year of high school work including: (1) at least 400 pages of modern Spanish literature; (2) ability to write a Spanish composition and to show understanding of a simple lecture in Spanish by answering questions upon it in the same language.

For detailed information, see pamphlet issued by the Department of Romance Languages entitled *A Four Years' Course in Spanish.*

NORSE. 1 unit. (1) Grammar and exercises equivalent to Holvik's *Beginner's Book in Norse*, or Michelet's *First Year Norse;* (2) 100 pages of text of the grade of Björnson's *En Glad Gut.*

2 units. The work for one unit, and (1) a review of the grammar; (2) 200 pages of prose and verse, equivalent in grade to Holvik's *Second Book in Norse* and Ibsen's *Terje Viken.*

HEBREW. 1 unit. (1) Correct pronunciation and principles of Hebrew phonetics; (2) grammar, the equivalent of Harper's Elements of Hebrew as prescribed in Harper's *Introductory Hebrew Method and Manual*, first 25 lessons (through the regular verb); (3) reading of the first four chapters of Genesis or an equivalent amount of simple historical prose; (4) translation of simple English sentences into Hebrew.

2 units. (1) Beside the foregoing, the completion of the Elementary Hebrew Grammar covering the irregular verbs and nouns with suffixes (completion of Harper's *Method and Manual*); (2) the reading of about 50 pages of simple Hebrew prose; (3) ability to translate into Hebrew ordinary English prose, and to read at sight historical Hebrew like the narrative portions of Judges or Samuel, when new words are given.

FINE AND APPLIED ARTS

Owing to the present state of development of fine and applied arts, music and the vocational subjects in the high school curriculum, requirements in these subjects are not defined. The ac-

ceptance of work for admission will be based upon a special inspection; and the approval of courses will depend primarily upon adequate equipment and efficiency of instruction.

A tentative statement of acceptable units in these subjects is:

Agriculture. Plant Production, Agricultural Chemistry, and Soils, 1 or 2; Animal Husbandry, 1; Rural Economics, Farm Management and Farm Mechanics, 1 or 1½.

Commercial Work. Bookkeeping, 1; Stenography and Typewriting, 1 or 2; Commercial Arithmetic, ½; Commercial Law, ½; Commercial Geography, ½.

Drawing, Art and Design. 1-4 units. Art to include freehand drawing, light and shade, color rendering and perspective, 1 or 2; principles of design including applications in line, form and color, 1 or 2; crafts with correlated design, 1 or 1½.

Domestic Arts. Textiles and clothing, 1 or 2.

Domestic Science. Food study, 1 or 2.

Manual Arts. Mechanical Drawing, 1-4; Shop Work, 1-2; Freehand Drawing and Design, 1-2; Mechanical Drawing and Shop, 1-4.

Music. Courses in music which the high schools credit toward graduation will be accepted after approval by the Committee on High School Relations, 1 unit.

ADMISSION UPON EXAMINATION

The University offers two admission examinations, one in June and one in September. For dates, see Calendar, p. 8. All candidates must be present at 9 o'clock on the first day of examination. No special examinations are given. Students who are in doubt as to their qualifications are urged to present themselves in June.

Candidates for admission may divide the subjects and take the examinations in two trials; but a failure to pass all the subjects in two trials will necessitate a complete re-examination. For the character of the entrance examinations, see p. 109ff.

ADMISSION UPON CERTIFICATE

Graduates of accredited high schools* may enter the University without examination, on the presentation of a certificate showing the satisfactory completion of the fifteen required units, *and con-*

*Any high school or academy in the state whose course of instruction covers the branches required for admission to the University may be admitted to its accredited list of preparatory schools after a satisfactory examination by a committee of the

taining the recommendation of the principal. Forms prepared by the University must be used, and may be obtained from the Registrar. *These certificates should be sent to the University before August 1.*

Principals of accredited schools are requested to note the statement regarding the examination of freshmen in English (see p. 110) and also a similar examination in algebra in the College of Engineering.

Graduates of four-year non-accredited schools in Wisconsin will be admitted without examination, on probation, upon recommendation of the principal, where the graduate in his high school course has satisfied the full requirements for admission to the University.

SCHOOLS OUTSIDE WISCONSIN. The following regulations will apply to graduates of schools without the state:

1. Graduates of secondary schools outside Wisconsin, included in the current list of accredited schools of the North Central Association, will be admitted when recommended and certified by the principal as indicated above, provided the minimum admission requirements of the University be fulfilled in all cases.

2. Graduates of other secondary schools outside Wisconsin will be admitted when properly recommended and certified; provided (a) That the school maintains on the basis of regular inspection accredited relationship with the state university, or

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Faculty. Upon application made by an officer of any high school or academy in the state to the Chairman, Committee on High School Relations, the University will examine the school with reference to placing it upon its accredited list of preparatory schools. The examination, which will be conducted by a committee of the Faculty, will cover the course of study and methods of instruction in the school. No school will be placed upon the list whose course of study is not fully equal to the four-year course of high schools recommended by the State Superintendent.

Any high school or academy with a complete four-year course whose course of instruction does not include foreign language may be admitted to the accredited list under the conditions stated above, provided its course of instruction covers fifteen units in the subjects accepted for admission to the University.

The University desires to keep fully informed regarding the work of its accredited schools by means of annual reports and frequent inspections. Every accredited school is required to report each year concerning its teachers, course of study, methods of instruction, and material equipment. Forms are furnished by the University for this purpose. The University sends out inspectors at its own expense and at the convenience of the members of the staff. Especial attention is called to the necessity of promptly notifying the Chairman of the Committee on High School Relations of changes in the dates of examinations and vacations. The list of accredited schools will be published near the end of the academic year; it will be sent to all accredited schools and to all high schools in the state. Copies may be obtained from the Registrar.

other university within the state, included in the membership of the Association of American Universities. The state university must maintain the same standard of admission requirements as those institutions belonging to the Association of American Universities. (b) That the minimum admission requirements of the University of Wisconsin be fulfilled both as regards number of units and character of work. In such cases the character of the work submitted shall be interpreted to mean an average standing of "good."

Credentials properly certified by the principal on forms provided by the University should be submitted for approval *before August 1.*

Advanced credit for high school work may be granted to students with satisfactory average standings presenting more than fifteen units accepted for admission, provided: (1) the subjects in which advanced credit is sought are the general subjects accepted for admission to the University; (2) the work is as advanced as work given in the freshman year; (3) the course for which credit is desired be approved by the chairman of the department; and (4) the student passes a satisfactory examination at least two hours in length, held at the University before or during the Christmas recess. No advanced credit will be given for work in language unless it be in excess of six units of language offered for admission, nor will advanced credit be given for less than three semester hours.

ADMISSION WITH ADVANCED STANDING

College Courses—Wisconsin Normal Schools

The University will accept for credit to advanced standing the work of two years in college studies offered by the state normal schools of Wisconsin. The credits named hereafter will be given to students who, at the time of entering the normal school, were fully prepared to enter the freshman class at the University. The standard amount of credit will be thirty credits for one year's full work and sixty credits for two years' full work in studies approved by the several colleges and taken substantially in the order required of students at the University.

The following credits may be taken in the several colleges and courses:

A. College of Letters and Science.

Bachelor of Arts and Bachelor of Philosophy (General Course)—Sixty credits in required work and work regularly offered by the University to freshmen and sophomores.

Bachelor of Philosophy (Course for Normal School Graduates)—Junior rank.

Bachelor of Science—A special amount as may be determined by the committee on advanced standing.

B. College of Agriculture.

Required and elective language, mathematics, and science, approved as equivalents by the College of Letters and Science, to the amount of sixty credits. Technical agricultural work credited only if given by special and properly qualified teachers.

C. College of Engineering.

Credit for language and science, so far as these are required in Engineering, on the same basis as credit given in the College of Letters and Science. For mathematics, usually less credit; ordinarily one semester less than the amount taken in normal school. In mechanical drawing, credit only so far as work is equivalent, as a technical study, to the course in the University. All drawings and plates made at the normal school must be submitted by a student who desires credit.

D. Law School and Medical School.

Students who are entitled to sixty credits in college studies will be admitted to the Law School, and also to the Medical School if they have taken the studies required for entrance to that school.

Students from the college courses in normal schools will not be granted more than two years' credit toward graduation; nor will they be granted more than sixty credits unless they enter a course whose first two years require more than sixty credits. In such case they may be granted more than sixty credits if the studies offered include the requirements of the university course in question.

Teachers Course—Wisconsin Normal Schools

Graduates of the Wisconsin state normal schools who desire to become candidates for degrees will be given credit as follows:

A. *Bachelor of Philosophy (Course for Normal School Graduates)*—Graduates of the two-year departmental courses in the state normal schools who have previously graduated from four-year high school courses and who upon graduation from the normal school are entitled to become candidates for an unlimited state certificate, will, upon presentation of their high school and normal school standings and certificates of graduation, be admitted to the junior year.

Graduates of the two-year departmental courses who are not high school graduates must present a complete record of their academic training and teaching experience. If this record is the substantial equivalent of high school graduation and two years of normal school work, such students will be given junior rank.

B. *Bachelor of Arts, and Bachelor of Philosophy (General Course)*—Graduates of the two-year departmental courses and of the specialized teachers courses who desire to become candidates for the degree of Bachelor of Arts or Bachelor of Philosophy (General Course) must submit for evaluation by the Committee on Advanced Standing a full statement of their high school standings and certificates of graduation. The amount of advanced standing granted ordinarily varies from 30 to 60 credits, depending upon the nature of the work taken in the normal school. The following conditions will be applied:

1. Graduates of the two-year departmental courses of normal schools must satisfy university requirements for the degrees.

2. Application for laboratory credit in science must be accompanied by laboratory or field books.

3. No credit will be given for any work in a normal school done in a quarter, term, or semester in which more than 20 hours per week, exclusive of physical education and similar work, were taken, except on special recommendation of the president of the school.

4. Graduates of the two-year departmental teachers courses of normal schools will not be granted more than two years' credit toward graduation; nor will they be granted more than sixty credits unless they enter a course whose first two years require more than sixty credits. In such case they may be granted more than sixty credits if the studies offered include the requirements of the university course in question.

In making the above statement in regard to credit for the two-

year departmental courses, there is no implication that additional credit will be given for a three-year course.

C. *Bachelor of Science.* Graduates of the departmental courses who desire to become candidates for the Bachelor of Science Degree must comply with substantially the same requirements as for the Bachelor of Arts degree.

Normal Schools Outside Wisconsin

Graduates and students of normal schools of other states will be admitted to the University with such advanced credit as their previous work entitles them to, except that no credit will be given greater in amount than that granted to graduates of any normal school by the state university of the state within which the normal school is situated. In addition to the normal school certificate and the certificate of high school work completed such graduate or student must present an official statement from the university of the state in question as to the amount of advanced credit that would be given for the work so completed.

Students From Other Colleges and Universities

Students from another institution who have pursued college courses equivalent to those of the University with an average standing of at least *fair* and have honorable dismissal, will be admitted to the University. If the grades for either of the first two semesters at the University average *fair*, the student will receive credits up to the amount of approximately 30 credits per year for the work at the other institution. Blank forms for transfer of credits are provided by the University. Former students of other institutions can not be received as freshmen on the basis of their preparatory records.

The University of Wisconsin long ago proposed and has maintained arrangements with the colleges and normal schools of the state by which the College of Letters and Science has given credit for the work of freshman and sophomore years in standard college courses equivalent to those of the University. The number of students who enter the University with advanced standing under this arrangement has constantly increased. Throughout these years the College of Letters and Science has emphasized its belief that it was to the advantage neither of the

student nor of the University to transfer to this college at the opening of the senior year, or, in general, later than the opening of the junior year. The Faculty desires to give as much as two years of teaching to persons who are to receive the bachelor's degree in courses which normally require four years, and it believes that in all but exceptional cases such a degree should mean at least two years of work at the institution granting it. On the other hand, the Faculty fully recognizes the wisdom of the principle involved in giving credit for junior college work, and is glad to accept students of suitable preparation as sophomores or juniors.

While, therefore, the minimum number of credits to be obtained *in residence* for a degree still remains at 30, students who desire to enter as undergraduates are strongly advised to do so not later than the beginning of the junior year. Students who apply for credit in excess of two years must expect to have their records closely scrutinized. The minimum requirement for graduation from a four-year course in the College of Letters and Science is 45 credits. This will ordinarily mean attendance for one and one-half years or one year and two summer sessions at this University.

By arrangement with Beloit College, Lawrence College, Ripon College, Carroll College, Milwaukee Downer College, the National Teachers' Seminary of Milwaukee (provided the candidate majors in German), Marquette University, St. Clara College, Milton College and Campion College, students of these institutions who have satisfactorily completed the work of the sophomore year will be admitted to junior rank in the College of Letters and Science. In case of migration at an earlier period than the end of the sophomore year, proportional credit will be given. Students who complete two years of work at Beloit, Lawrence, Ripon, Carroll or Marquette will be admitted to the College of Engineering of the University of Wisconsin on the same conditions as students who transfer to that College from the College of Letters and Science of the University of Wisconsin. Students of senior rank from Lawrence and Ripon who enter the College of Agriculture or Engineering, the Law School, School of Music, or the Course in Commerce, will receive credit for their professional studies toward graduation in the institution from which they come, to amounts to be determined by those institutions.

Students of other colleges of good standing who have not taken standard courses, but who have studied at least one year

in the college proper, may be admitted to the University provisionally. In such cases the amount of credit will be determined by the Committee on Advanced Standing. The University reserves the right to test by examination the records presented.

ADULT SPECIAL STUDENTS

Persons twenty-one years of age who do not possess all of the requirements for admission and are not candidates for a degree may be admitted to the College of Letters and Science or the College of Agriculture upon giving satisfactory evidence that they are prepared to take advantageously the studies open to them. Such students are normally required to select their studies only from courses open to freshmen. If they desire to take a study to which only advanced students of these colleges are regularly admitted, they must show special preparation or aptitude for such course. This privilege of admission is granted in the College of Engineering only to such students as are able, on examination, to meet all the entrance requirements in mathematics or who have completed their preparatory mathematics in the Extension Division of the University and present a certificate therefrom, duly approved by the chairman of the Department of Mathematics. The privilege of admission on the adult basis is rarely granted in the Law School and then only to students who can meet the regular entrance requirements to the College of Letters and Science.

Candidates applying for admission on the above basis are required to present to the Registrar in advance of their coming an official detailed statement of their preparatory studies for evaluation and approval.

Students will not be admitted, save in exceptional cases, directly from the secondary schools to the status of adult specials; nor will graduates of accredited schools be permitted to enter as adult specials, since they are required to qualify for regular matriculation.

Before beginning their junior year students admitted on the adult basis must have fully satisfied all entrance requirements. When all entrance requirements have thus been absolved, such students may continue work in the University, will receive regular classification, and may be accepted as candidates for a degree.

DEGREES

FIRST DEGREES

The following baccalaureate degrees are conferred after successful completion of the prescribed courses of study and compliance with all other requirements of the University:

Academic

BACHELOR OF ARTS, upon the graduates in the College of Letters and Science, except those from the course without required foreign language, the course for normal school graduates, and from the courses in Chemistry, Pharmacy, and Medical Science.

BACHELOR OF PHILOSOPHY (GENERAL COURSE), upon the graduates from the course without required foreign language.

BACHELOR OF PHILOSOPHY (COURSE FOR NORMAL SCHOOL GRADUATES), upon the graduates from the course for normal school graduates.

Professional and Technical

BACHELOR OF LAWS.

BACHELOR OF MUSIC, upon graduates from the Four-year Course in Music.

BACHELOR OF SCIENCE, (Agriculture).

BACHELOR OF SCIENCE, HOME ECONOMICS COURSE.

BACHELOR OF SCIENCE, CIVIL ENGINEERING COURSE.

BACHELOR OF SCIENCE, MECHANICAL ENGINEERING COURSE.

BACHELOR OF SCIENCE, ELECTRICAL ENGINEERING COURSE.

BACHELOR OF SCIENCE, CHEMICAL ENGINEERING COURSE.

BACHELOR OF SCIENCE, MINING ENGINEERING COURSE.

BACHELOR OF SCIENCE, CHEMISTRY COURSE.

BACHELOR OF SCIENCE, PHARMACY COURSE, upon graduates from the Four-year Course in Pharmacy.

BACHELOR OF SCIENCE, MEDICAL SCIENCE COURSE.

BACHELOR OF SCIENCE, PUBLIC HEALTH NURSING.

BACHELOR OF SCIENCE, INDUSTRIAL EDUCATION.

BACHELOR OF SCIENCE, APPLIED ARTS.

BACHELOR OF SCIENCE, PHYSICAL EDUCATION COURSE.

GRADUATE IN AGRICULTURE, upon graduates from the Two-year Course in Agriculture.

GRADUATE IN PHARMACY, upon graduates from the Two-year Course in Pharmacy.

A graduate of any course may receive the baccalaureate degree of any other course by completing the additional studies required in that course. Two baccalaureate degrees cannot be taken in one year, and for a second bachelor's degree in the College of Letters and Science there are required one year's additional study and a special thesis.

The requirements for the bachelor's degrees are stated under the appropriate colleges and courses on subsequent pages.

HIGHER DEGREES

The University confers in course the degrees of Doctor of Philosophy and Doctor of Public Health. The degree of Master of Arts is conferred as a second degree upon candidates who have received the degree of Bachelor of Arts or an equivalent, and the degree of Master of Science upon candidates who have received the corresponding baccalaureate degrees. The degree of Master of Public Health is granted in course to graduates of approved medical colleges for graduate work done here. The degree of Master of Philosophy is conferred upon candidates who have received the degree of Bachelor of Philosophy at the University of Wisconsin. Such candidates may receive the degree of Bachelor of Arts or Bachelor of Science by doing supplementary work. Candidates who have taken the degree of Bachelor of Science in one of the engineering courses may receive the degree of Civil Engineer, Mechanical Engineer, Electrical Engineer, Chemical Engineer, or Mining Engineer.

The conditions on which these higher degrees are granted will be found stated under the Graduate School, and also under the various colleges and schools.

THE COLLEGE OF LETTERS AND SCIENCE

G. C. SELLERY, DEAN.

There are two general courses in the College of Letters and Science: one leading to the degree of Bachelor of Arts, in which foreign language is a required study; the other leading to the degree of Bachelor of Philosophy (General Course), in which other required studies take the place of foreign language.

There are also special courses in commerce, journalism, and medicine, and a new "Course in Humanities" leading to special degrees of Bachelor of Arts; in chemistry, pharmacy, medicine, industrial education and applied arts, and physical education, leading to the degree of Bachelor of Science; in music, leading to the degree of Bachelor of Music; and for normal school graduates, leading to the degree of Bachelor of Philosophy (Course for Normal School Graduates).

I. General Requirements in the General Courses Leading to Degrees of Bachelor of Arts and Bachelor of Philosophy

1. Credits, Military Drill, Physical Education

The *credit* is the unit for computing the amount of work required for graduation. It is assigned to one hour of recitation or lecture or two hours of laboratory work per week for one semester (together with the accompanying study). Students are expected to secure 15 credits per semester in recitation, lectures, and laboratory work, making 30 credits per year, and 120 for the course. 120 grade points also are required for graduation. (See p. 97 for details.) In addition men are required to take 2 hours per week of physical training during the first two years, carrying a total of 4 credits. They are also required to take military work during the first two years to an amount not exceeding three hours per week, or 84 hours during each year; this work also gives a total of 4 credits. (For details see Department of Military Science and Tactics.) Women are required to take 4 hours of physical training per week during the first two years, carrying in all 8 credits. The total requirements for classroom work, military drill, and physical training are, therefore, 128 credits.

Each student is required to take class and laboratory work to the amount of 14-16 credits per semester, besides military drill and physical training in the case of students from whom these exercises are required. A student who desires to elect fewer than 14 credits must secure permission in advance from the dean. In case a student has received a grade of *good* in each study of the preceding semester, he may take extra studies to an amount not exceeding 18 credits. No student will be permitted to receive more than 18 credits (exclusive of required military drill and physical education) toward graduation in one semester.

Students transferring from a special course, *e. g.*, commerce or medicine, or from another college of the University, will receive no more than 15 credits a semester toward graduation for work already done, except in semesters in which all standings are 85 or above. They will not receive credit for technical studies of another college, except to the amount and under the conditions stated under Election of Studies in the Colleges of Agriculture and Engineering, p. 129.

2. Major Study and Thesis

Major Study.—At the beginning of the sophomore or the junior year every candidate for these degrees will normally select his major subject in one department of the College of Letters and Science. This department prescribes the manner in which the work of the major shall be completed (see statements in connection with announcements of courses offered by the several departments, below); the work required in the major (including thesis) may not be less than 20 nor more than 40 credits, the thesis receiving four of these credits.

Thesis.—All candidates are required to present a graduating thesis, except as provided below. The subject of the thesis must be approved by the student's adviser and filed with the chairman of the department in which the candidate is taking his major. It must represent some phase of the student's work in the major study and must be of a scholarly character. It is to be typewritten and bound according to specifications furnished by the Librarian of the University; and before it is accepted it must be approved by the instructor under whose guidance it has been done. It shall be deposited in the University Library by the Thursday before Commencement.

One of the following substitutes for the thesis may be allowed when, in the judgment of the department, it is advisable:

1. A course restricted to seniors and graduates, in groups of not more than ten, with written reports of independent work done in connection with the course under the supervision of the instructor.

2. An individual reading or research course, with frequent conferences between student and instructor and with written reports of independent work.

These substitutes shall involve work equivalent to at least 4 credits and shall be so certified by the instructor on the report card of each student taking either substitute. The several papers of each student shall deal with correlated subjects, and must be prepared with due attention to expression and to logical form. Before any student's papers shall be finally accepted as a whole, they shall be typewritten and bound together according to specifications obtaining in the case of the thesis. They shall be deposited in the University Library by the Thursday before Commencement.

For regulations excluding certain students from the privilege of writing a thesis or a substitute for the thesis (as defined above) see Classification of Students for Advanced Work and Thesis Purposes, page 138.

3. Electives

All work not included in the required studies of each course (see pp. 131-134) is elective, but there shall not be taken in any one department more than 40 credits, including required work, major, and electives. High school work for which university credit is given shall not count as part of these 40 credits.

4. Election of Studies in the Colleges of Agriculture and Engineering

Candidates for the degrees of B.A. and Ph.B. (General Course) are allowed to elect in the College of Engineering and the College of Agriculture studies in an amount not exceeding 20 credits. The conditions under which these studies may be taken are as follows:

a. Before electing studies in these colleges or schools the candidate must have completed the work of the freshman and sophomore years of the College of Letters and Science, including those studies which normally come in the freshman and sophomore years at Wisconsin.

b. Studies in these colleges may be elected only by students who are to spend at least two full years in residence at the Uni-

versity before receiving the bachelor's degree. Hence they may not be elected by students from other institutions who enter the University with more than half the credits required for graduation or by students who through correspondence study reduce the amount of attendance at the University below two years.

c. Certain courses primarily intended for students of other colleges (*e. g.*, Mathematics 51), if listed in the departmental announcements of the College of Letters and Science, are open in the same way as the courses primarily intended for students of the College of Letters and Science.

d. Courses in these colleges and schools which are parallel to courses offered in the College of Letters and Science may not be elected for credit without the consent of the dean of the College of Letters and Science, given in advance.

e. Not more than 5 of the 20 credits may be secured in either semester of the junior year.

5. Election of Studies in the Law School

Candidates for these degrees may elect studies in the Law School on the same terms as in the Colleges of Agriculture and Engineering (see preceding section), it being understood that not more than 20 credits, all told, from other colleges, will be accepted. In case the student, however, desires to take a full year of law he may elect it, and count it as 30 credits in Letters and Science, notwithstanding the Twenty Credits Rule, provided he meets the following requirements:

a. The requirements specified under section 4, a and 4, b (just preceding).

b. He may not credit any work in other colleges than Letters and Science and the Law School.

c. He must have 60 credits and 60 grade points and a clear scholastic record in Letters and Science before beginning his work in the Law School.

d. The full year in law shall be distributed over the four semesters of the junior and senior years, not more than 16 credits being taken in either year, nor more than 26 in both.

e. He may at his option elect law as a major subject, but in any case must meet all the requirements for his degree.

f. The courses in law shall be chosen from the following list: Agency, Common Law Pleading, Constitutional Law, Contracts, Criminal Law, Equity, Legal Bibliography, Personal Property, Public Service Companies, Real Property, Torts.

6. Election of the Library School Course

For conditions under which a student may elect work in the Library School, see Index, under Library School.

II. Required Studies in the General Course Leading to the Degree of Bachelor of Arts

a. English: Ten credits, as follows: Six credits in composition (three credits per semester for two semesters), to be taken in the first year of residence*; four credits in literature, to be taken normally in the sophomore year. Students securing a grade of *A* in the first semester of the composition may, if they so desire, omit the second semester of it.

b. Foreign Language: Thirty-two credits in one, two, or three of the foreign languages specified below are required for graduation. These credits may be secured partly in high school and partly in the University, or wholly in the University. High school work is accepted at the rate of one unit for four university credits up to the amount of six units or twenty-four university credits. In general, students are required to take a minimum of eight credits in one foreign language in the University. Any student, however, who presents more than six units for entrance will be allowed to count the additional unit or units toward the total requirement of thirty-two credits, provided he passes a special examination, given by the college, upon four units of his high school work in one language. This examination will normally be given before the Christmas holidays in the first semester of the student's freshman year.

Eight credits is the least amount of a foreign language which will be accepted toward these requirements, and if two or three languages are presented at least sixteen credits must be in one language. Students choosing a foreign-language major must present a second foreign language.

French, German, Greek, Hebrew, Italian, Latin, Norse, and Spanish may be offered either for entrance or graduation.

c. Two of the following: natural science, 10 credits, in a continuous year course; mathematics, 8 credits; history, 6 credits, in a continuous year course.

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*On the completion of course 1, a provisional pass mark is given; if at any time later in his course a student is reported as deficient or careless in English composition he may be required to take additional work in that subject.

Under natural science are included botany, zoology (or a combined course made up of a semester of botany and a semester of zoology), chemistry, physics, geography, and geology. All are courses of five credits per semester for two semesters, with laboratory work, or field work in geography and geology.

d. Major study, thesis, and electives. See statement, pp. 128-29.

Studies of the Freshman Year

In this year one study alone is absolutely required: English 1, three times per week. All other studies of the year must be chosen from the following groups:

Group I. At least one subject must be taken from this group and not more than 10 credits may be chosen from any one subject.

Greek: 3-5 credits; two semesters.
Latin: 4-5 credits; two semesters.
Hebrew: 4 credits; two semesters.
German: 4 credits; two semesters.
French: 4 credits; two semesters.
Italian: 4 credits; two semesters.
Spanish: 4 credits; two semesters.
Norse: 4 credits; two semesters.

Group II. At least one subject must be chosen from this group. Not more than 10 credits may be taken in any one subject.

Mathematics:

Algebra: 4 credits; one semester.
Trigonometry: 4 credits; one semester.

These courses in mathematics are repeated each semester.

Science:

Botany: 5 credits; 2 semesters; 2 lectures, 4 laboratory periods, 1 recitation.
Zoology: 5 credits; 2 semesters; 2 lectures, 4 laboratory periods, 1 recitation.
Biology: A year's course arranged by combining Botany (first semester) and Zoology (second semester), or vice versa.
Chemistry: 5 credits; 2 semesters; 3 lectures, 3 laboratory periods, 1 recitation.
Physics: 5 credits; 2 semesters; 3 lectures, 2 laboratory periods, 2 recitations; or 2 lectures, 1 laboratory period, 3 recitations.
Geography or Geology: 5 credits; 2 semesters.
Astronomy: 3 credits; 1 semester. (This course cannot be offered as part of required science.)

History:

Ancient History: 3 credits; 2 semesters.

English History: 3 credits; 2 semesters.

Medieval History: 3 credits; 2 semesters.

Students may secure 5 credits per semester in history by taking two courses. In this case they will do the full work of one course, receiving 3 credits; in the other course they will omit much of the collateral reading and the reports, and will receive 2 credits.

Drawing: 3 credits; 1 or 2 semesters.

The student may take 14, 15 or 16 credits from these studies. The combination may be made by adding to English two foreign languages from Group I, with one subject from Group II; or by taking but one foreign language with two subjects from Group II. Students are advised to carry on the language, or languages, which they have had in the high school. Those who come with only two years of language preparation should continue the preparatory language during the freshman year.

The following courses open to freshmen will be found described under Departments of Instruction on the following pages. The figures following the name of the department refer to the number of the course as given under the proper heading under Departments of Instruction. Advanced courses in language are open to students of suitable preparation.

English 1, Greek 1, 7, and 10, Latin 1, 2, 3, 4, 6, German 1 to 3, and 10, French 1, 10, 13, 14, 15, Spanish 1, 10, 14, 15, Italian 1, Mathematics 1, 2, 3, 5, 6, 8, Biology 1, Botany 1, 2, Zoology 1a, 1b, Chemistry 1, Physics 1 and 1 Sc, Geology 1 and 4, Astronomy 1, History 1, 5, and 10, Drawing (Freehand or Mechanical), Journalism 1 (no credit). Only the ten-credit courses in science can be counted toward the science required for graduation.

III. Required Studies for the Degree of Bachelor of Philosophy (General Course)

All of the studies prescribed below are to be taken in college.

a. English, 10 credits (5 credits per semester for two semesters *or* Freshman English plus sophomore composition) *for students who do not elect foreign language in the freshman year.* Six credits (3 credits per semester for two semesters) *for students who elect foreign language in the freshman year.*

b. Science and mathematics. A total of 20 credits to be taken in year courses. (*E. g.*, 8 credits in mathematics and 12 in science, or 10 credits in mathematics and 10 in science, or 20 in mathematics, or 20 in science, etc.) Only the sciences as approved for the B. A. course will be accepted as meeting this requirement. See page 132.

c. Two of the following groups:

1. Philosophy or mathematics, 10 credits in one of the two. Mathematics may not be offered both here and under b above.
2. History, 10 credits, to be taken in year courses.
3. Foreign language, 14 credits. Not more than 8 of these may be in a beginner's course.

d. Major study, thesis, and electives. See statement, pp. 128-129.

The departments and courses open for credit are the same as in the B.A. course. See statement on preceding pages.

Studies of the Freshman Year

The same studies are open to freshmen in this course as in the B.A. course and on the same terms. See statement on preceding pages, under B.A. course. Students may readily make the following combinations, in which the numbers represent the number of credits per semester. Other combinations are feasible.

a. Without foreign language.

1. English 5 credits, history 5, science 5.
2. English 5 credits, science 5, mathematics 4.
3. English 5 credits, science 5, history 5.
4. English 5 credits, history 5, mathematics 5.

b. With foreign language.

1. English 3 credits, language 4 or 5, history 3, science 5.
2. English 3 credits, language 4, history 5, mathematics 4.
3. English 3 credits, language 4, science 5, mathematics 4.
4. English 3 credits, language 4 or 5, mathematics 5, history 3.

Students who may elect as indicated in Group b will be in line, if they choose to do so, to go on toward the B.A. degree instead of the Ph.B. They may continue foreign language in the sophomore year, and offer it as part of the prescribed credits for the Ph.B. degree, or the study may be discontinued at the end of the freshman year. In the latter case the student will need to offer 10 credits in philosophy or in mathematics, and 10 in his-

tory. Students may elect two foreign languages, but such students will ordinarily enter the B.A. course.

IV. Requirements for a Degree in the Course in Commerce

Students who have completed the regular four year Course in Commerce will receive the degree of Bachelor of Arts (Course in Commerce). (See p. 254.)

V. Requirements for a Degree in the Course in Humanities

Students who have completed the regular four year Course in Humanities will receive the degree of Bachelor of Arts (Course in Humanities). (See p. 256.)

VI. Requirements for a Degree in the Course in Journalism

Students who have completed the regular four year Course in Journalism will receive the degree of Bachelor of Arts (Course in Journalism). (See p. 260.)

VII. Requirements for the Degree of Bachelor of Music

Students who have completed the regular four year Course in Music will receive the degree of Bachelor of Music. (See p. 295.)

VIII. Requirements for the Degree of Bachelor of Science

Students who have completed the regular four year Course in Pharmacy will receive the degree of Bachelor of Science, Pharmacy Course. (See p. 263.)

Students who have completed the regular four year Course in Chemistry will receive the degree of Bachelor of Science, Chemistry Course. (See p. 246.)

Students who have completed a regular four year Course in Industrial Education and Applied Arts will receive the degree of Bachelor of Science, Industrial Education or Bachelor of Science, Applied Arts. (See pp. 287, 290, School of Education.)

Students who have completed the regular four year Course in Physical Education will receive the degree of Bachelor of Science, Physical Education Course. (See p. 292, School of Education.)

IX. Requirements for a Degree in the Course in Medical Science

Students who have fulfilled the specified requirements will receive the degree of Bachelor of Science, Medical Science Course. (See Index, under Medical School.)

The departments which constitute the Medical School are at present also constituent departments of the College of Letters and Science. Unless otherwise stated, the courses offered in these departments are open for election to any students in the College of Letters and Science who have the prerequisites. Candidates for the degree of Bachelor of Arts are not permitted to matriculate in the Medical School for more than one year. Candidates for the degree of Bachelor of Science, Medical Science Course, may be registered two years in the Medical School. The language requirements for the latter degree are laid down for admission to the Medical School. (See Index.)

X. Requirements for the Degree of Bachelor of Philosophy

Course for Normal School Graduates

Graduates of the two-year departmental courses of the state normal schools are admitted to advanced standing in the various courses and colleges of the University on conditions given under the heading Admission. (See Index.) A special course, leading to the degree of Bachelor of Philosophy (Course for Normal School Graduates), has been arranged by the University to meet the needs of most of those who graduate from the departmental courses of the state normal schools. Such graduates are admitted to junior standing in candidacy for this degree. The course contains a minimum required amount of advanced studies in philosophy and education—6 credits in each—with the privilege of further elections in those subjects. All courses in philosophy, except course 1 (elementary psychology), are open to election by normal school graduates. In education, no elementary course may be elected by a normal school graduate; the courses which he may elect in fulfillment of requirements are those numbered above 100 on pp. 173-174 of this catalogue. Departmental teachers courses in the several departments may *not* be elected in fulfillment of these requirements in education.

This course also requires a continuous study of one foreign language (Latin, French or German) during the two years of the course—that is, a total of 16 credits. An exception to this re-

quirement is made in certain cases.* Any student in this course who offers work in foreign language equal in amount to that demanded of candidates for the degree of Bachelor of Arts will not be required to pursue courses in foreign language in the University; and no student will be required to complete more work in foreign language than is demanded for the degree of Bachelor of Arts.

The student must also complete a major in some department on the same conditions as obtain for the B.A. degree. (See p. 128.)

The required work in the course, including a minimum of 20 credits in the major study, amounts to at least 48 credits. The student may not take courses that total more than 16 credits for the first semester, and he is under the same rules regarding number of credits as the student in the B.A. course. (See p. 127.) It is expected that the normal school graduate will give special attention to preparation for teaching some one branch of instruction and he should choose his electives so as to attain this end. He must on entering select work in some one department as his major study. His adviser will be assigned from that department, and it will be the duty of the adviser to arrange the student's work so that he may satisfy the requirements both of the course and of the major study. These may be satisfied in two years, except in a few departments.

Students in the Course for Normal School Graduates may not elect studies in other colleges, except by special permission. This will ordinarily be granted only when the studies desired are necessary for the future work of the student as a teacher. Application for such permission should be made in advance to the dean, through the director of the School of Education.

Military drill and physical training are not required of normal school graduates.

A student who completes the course for normal school graduates may secure the University Teachers Certificate by fulfilling the requirements stated on page 274.

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*A normal school graduate who has had altogether five years of experience in teaching will be allowed to substitute for the required work in language sixteen credits in language, literature, history, or philosophy, of which at least twelve credits must be in one of the four fields named. If philosophy is chosen, the credit must be in addition to the six credits regularly prescribed. These sixteen credits shall not be in single semesters of courses regularly running through the year, except by special permission; nor shall they be taken in the department of the major subject.

In the first semester the student should begin foreign language, take part of the required courses in philosophy and education, and begin his major study. The course of study will be as follows:

Junior Year. Foreign language (each semester), 4 or 5 credits; philosophy or education; major study; electives; total credits first semester, 14-16.

Senior Year. Continuation of foreign language; completion of required philosophy and education; major study and thesis; electives.

XI. Grade Point Requirements in the College of Letters and Science

The general regulations concerning the grade point system are stated on page 97. The special regulations of the College of Letters and Science are as follows:

1. A student in any course requiring 120 academic credits for graduation must secure 60 grade points and at least 60 credits in order to absolve the academic requirements of the first half of his four year course, and *thereafter* must secure 60 grade points and at least 60 credits in order to absolve the academic requirements of the second half of his four year course. In other words, the credits in excess of 60 required to secure the 60 grade points necessary for the first half of the four year course will not be counted toward graduation.

2. A student in any course requiring more than 120 academic credits for graduation must similarly secure half his grade points and at least half his credits in order to absolve the requirements of the first half of his four year course, etc.

3. A freshman must have 25 grade points and at least 25 credits before he may become a sophomore; a sophomore must have 58 grade points and at least 58 credits before he may become a junior, and a junior must have 88 grade points and at least 88 credits before he may become a senior.

XII. Classification of Students for Advanced Work and Thesis Purposes

1. *Classification.* At the close of the sophomore year all students in the College of Letters and Science shall be provisionally divided into two groups on the basis of grade points earned

during the freshman and sophomore years. Students who have earned at least 50% more grade points than credits by the end of the sophomore year are designated as upper group students. A student's upper group status shall continue throughout the remainder of his college course as long as the total of all grade points earned in college is 50% greater than the total number of credits earned. Upper group status may be established, however, at any time after the sophomore year when the total of a student's grade points is 50% greater than the total of his credits.

2. *Advanced Standing.* Students transferring to the University of Wisconsin from other institutions shall be regarded as upper group students only after they have completed a year of work at this University, earning 50% more grade points than credits.

3. *Advanced Courses.* Upper group students shall at the discretion of departments be eligible for more advanced work than other students.

4. *Thesis.* Upper group students shall comply with the present thesis requirement for graduation. For other students the thesis requirement shall be optional with the major department.

Graduation in Less Than Four Years

Candidates for the degree of Bachelor of Arts who desire to graduate in three years may do so by obtaining 17 or 18 credits per semester after the first semester of the freshman year, and by attending three summer sessions, thus securing a total of 120 credits. Permission to take work to this amount will be given only to students whose standing in their studies is wholly satisfactory. No credit will be given for repetition in the Summer Session of studies taken in the regular session of the University, or for repeating in the regular session work done in the summer. Students will need to select carefully their work for the summer with reference to the required and elective studies of the course in which they expect to graduate. The Summer Session offers exceptional opportunities for the preparation of a senior thesis. A student who expects to shorten his course by means of the Summer Session will necessarily consult his adviser before selecting his studies.

Residence Requirements

Candidates for the bachelor's degree who enter with advanced standing must obtain from the University a minimum of 45 cred-

its, and will therefore ordinarily be in residence (at Madison) for three semesters or for two semesters and two summer sessions. They are permitted, however, to secure 15 of the required 45 credits by correspondence on condition that they secure the remaining 30 credits in residence for two semesters. Students who are not in residence for two semesters may not secure any of the 45 credits by correspondence, but must make use of the summer session.

Students are not permitted to take the advanced work of the major study, including the thesis, in another institution or by correspondence. These studies normally culminate in the last year of the undergraduate course and all candidates for degrees must expect to take them in residence.

In special cases the Executive Committee of the College, on application to the dean, may permit a senior, who has completed the work of his major and thesis, to take not to exceed 6 credits in correspondence courses to complete his requirements for the degree.

Student Advisers

Upon entrance, each student in the College of Letters and Science is assigned to a member of the Faculty who acts as his adviser during the freshman and sophomore years. At the beginning of the junior year, when the student has selected his major study, a member of the department in which his major is chosen becomes his adviser. Each semester, the student is required to consult his adviser concerning the choice of studies and the adviser must give his approval before the student is permitted to elect them.

The University Teachers Certificate

In accordance with the statutes of Wisconsin, certificates are issued to all graduates of a regular collegiate course who complete the course in pedagogical instruction prescribed by the University. This certificate, when presented to the State Superintendent, entitles the holder to receive a license to teach in any public school in Wisconsin for one year, renewable for a second year after one year of successful experience. Graduates who present satisfactory evidence of good moral character and of two years of successful teaching in the Wisconsin public schools after graduation are entitled to receive from the State Superintendent an unlimited state certificate.

For requirements for teachers certificate, see pp. 272ff.

Honors in the College of Letters and Science

Honors and High Honors are awarded at the end of the sophomore year and at graduation.

Sophomore Honors and *Sophomore High Honors* are awarded on the basis of a minimum of two full years of work (not less than 60 credits) completed in residence. A student securing 135 grade points* during these two years is awarded *Sophomore Honors;* a student securing 165 grade points is awarded *Sophomore High Honors.*

Senior Honors and *Senior High Honors* are awarded at the completion of at least two full years of work (not less than 60 credits) completed in residence after finishing sophomore work. A student securing 135 grade points during these two years is awarded *Senior Honors;* a student securing 165 grade points is awarded *Senior High Honors.*

Thesis Honors are granted for an exceptionally fine or original thesis, without consideration of the student's record in other work.

Senior Honors, Senior High Honors, and *Thesis Honors* are published in the Commencement Day program. *Sophomore Honors* and *Sophomore High Honors* are published in such manner as the dean of the college shall consider proper.

*See "Grade Point System," p. 97.

DEPARTMENTS OF INSTRUCTION

Abbreviations in the announcement of courses: Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e., hours of credit. Unless otherwise stated, the number of credits per semester is given.

ANATOMY

PROFESSORS BARDEEN (CHAIRMAN), MILLER; ASSISTANT PROFESSORS BAST, SULLIVAN; INSTRUCTOR GEIST; ASSISTANTS CONRAD, EDWARDS, MADISON, MUELLER, SUTLIFF.

For full description of the courses offered in this department, see announcements under Medical School.

For Undergraduates and Graduates

110. Histology and Organology. I; 4 cr. Dr. Miller.

115. Mammalian Embryology. II; 2 cr. Dr. Bardeen.

120. Anatomy for students of physical education. II; 6 cr. Dr. Bardeen.

121. Human Anatomy. Yr. I; 6-8 cr.; II; 4-6 cr. Dr. Bardeen, Dr. Sullivan.

122. Topographical Anatomy. I or II; 4 cr. Dr. Bardeen.

123. Special Human Anatomy. Dr. Bardeen.

126. Neurology. II; 4 cr. Dr. Miller.

130. Advanced Anatomy. Dr. Bardeen.

131. Historical Seminary. Dr. Miller.

For Graduates

235. Investigation under direction.

ASTRONOMY

PROFESSOR COMSTOCK.

For Undergraduates

1. General Astronomy. II; 3 cr. Open to freshmen. No previous mathematical training required.

6. Astronomical Practice. II; 2 or 3 cr. Planned for juniors and seniors in civil engineering.

7. Advanced Field Astronomy. Yr.; cr. to be arranged. Prerequisite: course 6.

For Undergraduates and Graduates

113. Spherical Astronomy. I; cr. to be arranged.

114. Practical Astronomy. II; cr. to be arranged.

116. Celestial Mechanics. Yr.; cr. to be arranged. Prerequisites: mathematics (courses in trigonometry, analytic geometry, and calculus); Astronomy 1.

122. Method of Least Squares. I or II; 2 cr. Prerequisites: mathematics (courses in higher algebra, analytic geometry, and calculus); at least one course in either geodesy or observational astronomy.

For Graduates

225. Research. Graduate students desiring to pursue advanced astronomical studies or research may have access to the instruments and library of the Washburn Observatory upon showing that they are qualified to profit by such opportunity.

BIOLOGY

Study in the biological sciences is conducted in the independent though coordinated departments of Botany, Zoology, Anatomy, Physiology and Physiological Chemistry, Genetics, Pathology and Medical Bacteriology, Pharmacology and Toxicology, Plant Pathology, and Agricultural Bacteriology.

1. General Biology. Yr.; 5 cr. An elementary one-year course in general biology may be taken by combining Botany 1 (first semester) and Zoology 1b (second semester). Introductory to botany, zoology, anatomy, bacteriology, and physiology, and a prerequisite for all advanced work in these departments.

BOTANY

PROFESSORS ALLEN, JONES, KEITT, KRAUS, OVERTON (CHAIRMAN); ASSOCIATE PROFESSORS GILBERT, SMITH; ASSISTANT PROFESSORS BRYAN, DENNISTON; CURATOR DAVIS; INSTRUCTORS BAIRD, HAMPTON, STEIL; ASSISTANTS ALFORD, ENGEL, FISK, PEARSON, ROGERS, SHOWALTER, STOCKHAUSEN, WOLFSON; STUDENT ASSISTANTS BROWNRIGG, COPELAND, LOTZ.

FELLOW, MISS REID.

Major in Botany

For a major in botany, a minimum of thirty credits is required; this should include, besides the thesis, one of the following groups of courses or their equivalents:

a. Biology 1 (Botany 1 and Zoology 1b), and courses 103, 104, 105, and 106; or

b. Biology 1, Botany 2, and two morphological courses (selected from courses 103, 104, 105 and 106.)

For Undergraduates

1. General Botany. I or II; 5 cr. Preliminary to all advanced work. Accepted with Zoology 1b to make up an elementary course in general biology. Mr. Allen, Mr. Overton, Mr. Smith, and staff.

2. Advanced General Botany. II; 5 cr. Accepted as part of a teacher's minor or, with course 1, in satisfaction of the requirement of a year of natural science. Prerequisite: course 1 or its equivalent. Mr. Bryan and staff.

90. The Teaching of Botany. II; 2 cr. Mr. Gilbert.

Senior Thesis. Yr.; 2 cr. A subject should be selected, whenever possible, before the close of the junior year.

For Undergraduates and Graduates

101. Diseases of Plants. I; 3 cr. Prerequisites: Botany 1 and Bacteriology 1. Mr. Jones, Mr. Gilbert.

102. Methods in Plant Pathology. I; 3 cr. Prerequisite: Plant Pathology 101. Mr. Keitt.

103. Morphology of Algae. I; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Smith.

104. Morphology of Fungi. I; 3 cr. Prerequisite: course 1 or its equivalent. Mr. Gilbert.

105. Morphology of Bryophytes and Pteridophytes. II; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Allen, Mr. Steil.

106. Morphology of Seed Plants. II; 3 cr. Prerequisite: course 1 or its equivalent. Mr. Smith.

110. Plant Histology. I; 3 or 4 cr. Prerequisite: course 1 or its equivalent. Mr. Denniston.

111. Microscopical Examination of Drugs and Foods. II; 3 cr. Prerequisite: course 110. Mr. Denniston.

*115. **Histology of Woods.** I; 2 cr. Mr. Denniston.

122. **Advanced Morphology and Classification.** Cr. to be arranged. Prerequisite: adequate preparation in the morphology of the group studied.

129. **Classification of Cultivated Plants.** I; 2 cr. Mr. Baird.

130. **Identification and Classification of Seed Plants.** II; 4 cr. Mr. Denniston, Mr. Baird.

131. **Dendrology.** II; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Denniston.

133. **Microscopy of Drugs.** I; 3 cr. Prerequisite: course 110. Mr. Denniston.

146. **Plant Physiology.** II; 4 cr. Prerequisite: course 1 or its equivalent, and a knowledge of physics and chemistry. Mr. Overton, Mr. Hampton.

147. **Advanced Plant Physiology.** Yr.; 3 cr. Prerequisite: course 146 or its equivalent and a knowledge of physics and chemistry. Mr. Overton.

150. **Cytology.** Yr.; 5 cr. Prerequisite: courses 103 to 106, or their equivalents. Mr. Allen.

154. **Evolution and Inheritance in Plants.** I; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Bryan.

156. **Facts and Theories of Heredity.** II; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Allen.

For other courses dealing with evolution and heredity, see Courses 6 and 107 in the Department of Zoology, and 1, 101, 104, and 105 in the Department of Genetics (College of Agriculture).

For Graduates

214. **Seminary in General Botany.** Yr. Mr. Allen.

215. **Seminary in Plant Physiology.** Yr. Mr. Overton.

216. **Research.** Yr. Investigation may be undertaken in any department of botany in which the student's preparation is adequate.

220. **Advanced Mycology.** Yr. Prerequisite: course 104 or its equivalent. Mr. Gilbert.

221. **Classification of Parasitic Fungi.** Yr. Prerequisite: the equivalent of Botany 104 or of Plant Pathology 101. Mr. Davis.

223. **Seminary in Plant Pathology.** Yr.; 1 cr. Mr. Jones.

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*See also Forest Products Laboratory for other lectures on wood structure.

224. Applied Botany. II. Prerequisites: Botany 106, 146. Mr. Kraus.

225. Research in Plant Pathology. Yr. Mr. Jones, Mr. Keitt, Mr. Gilbert.

248. Physiology of the Fungi. I. Prerequisites: Course 146 or its equivalent, and a knowledge of physics and chemistry. (Omitted in 1921-22.) Mr. Overton.

252. Cytology of the Fungi. II. Prerequisites: Courses 104 and 150 or their equivalents. Mr. Gilbert.

CHEMISTRY

PROFESSORS FISCHER, KAHLENBERG, KREMERS, LENHER, MATHEWS (CHAIRMAN), WALTON; ASSOCIATE PROFESSOR KRAUSKOPF; ASSISTANT PROFESSORS ADKINS, BOHNSON, DANIELS, DAY, KEMMERER, LANGENHAN, SCHUETTE, SKINNER; INSTRUCTORS CLARK, FRICK, HICKEY, MASON, S. MOORE, SCHIERZ, SCHMIDT, SCHRENCK, WAKEMAN, WILLIAMSON, WISE; ASSISTANTS ANDREWS, BOTTS, CHILD, DAWLEY, DICKENSON, FANSELOW, FRENCH, FROEHLKE, HAINES, HERREID, JULIEN, KLEIN, KRAUSE, LERCH, LEWIS, LUECK, MCCOLLUM, MELOCHE, J. W. MOORE, PARSONS, PESTALOZZI, PHELAN, ROWLAND, SMITH, STEINLE, TEMPLETON, TOSTERUD, VERHULST, WHEARTY, WAKEFIELD, WHITFORD, WILLIAMS, WITHROW; STUDENT ASSISTANT STAMBAUGH.

RESEARCH ASSISTANTS S. B. HOFSOOS, J. D. JENKINS, J. R. KOCH, C. W. MUEHLBERGER, G. A. RAMSDELL.

NATIONAL RESEARCH COUNCIL FELLOW, F. L. BROWNE.

DUPONT FELLOW, B. H. CARROLL.

FELLOW, W. L. RAY.

SCHOLAR, F. E. BISCHOFF.

LAWRENCE COLLEGE SCHOLAR, L. O. ABBEY.

Major

For an undergraduate major in chemistry are required, in addition to a thesis, at least 30 credits including course 1, one semester of course 11, one semester of course 120, and one semester of course 130.

For Undergraduates

1a. General Chemistry. I or II; 5 cr. Mr. Walton, Mr. Krauskopf, Mr. Bohnson, and staff.

1b. General Chemistry and Qualitative Analysis. II; 5 cr. Mr. Walton, Mr. Krauskopf, Mr. Bohnson, and staff.

2a. General Chemistry. I or II; 3 cr. For freshmen in engineering. Mr. Kahlenberg, Mr. Krauskopf, Mr. Day, and staff.

2b. General Chemistry. II; 3 cr. For freshmen in engineering. Mr. Kahlenberg, Mr. Day, and staff.

10. Mathematical Chemistry. I; 3 cr. Prerequisites: Algebra and trigonometry. Mr. Daniels.

11. Quantitative Analysis. Yr.; 3 to 5 cr. Prerequisite: General chemistry, including qualitative analysis. (First semester of course 11 repeated in second semester.) Mr. Lenher and staff.

11Ag. Quantitative Analysis. I; 3 cr. For agricultural students. Prerequisite: General chemistry, including qualitative analysis. Mr. Lenher and staff.

11Eng. Quantitative Analysis. I; 5 cr. For engineering students. Prerequisite: General chemistry, including qualitative analysis. Mr. Kemmerer and staff.

17. Chemical Preparations. 2 or more credits. Mr. Kemmerer.

20. Organic Chemistry. I; 2 cr. class; 2 cr. lab. Prerequisite: Chemistry 1. Mr. Skinner and staff.

26. Inorganic Pharmaceutical Chemistry. I; 4 cr. Required of students in pharmacy. Prerequisites: Courses 1, 11, and 17. Mr. Kremers, Miss Wakeman.

27. Organic Pharmaceutical Chemistry. II; 5 cr. Prerequisite: Course 20. Required of students in pharmacy. Mr. Kremers, Miss Wakeman.

30. Physical Chemistry. II; 3 cr. For chemical engineering students. Mr. Mathews, Mr. Daniels, and staff.

40. Plant Chemistry. Yr.; 3 cr. Supplementary to Botany 132. Miss Wakeman.

45. Alkaloid Assay. II; 1 or more cr. One hour required of students in pharmacy. Additional work may be elected upon consultation. Mr. Langenhan.

90. The Teaching of Chemistry. II; 2 cr. Prerequisites: Chemistry 1; 120, first semester; credit or enrollment for five credits in Chemistry 11. Mr. Walton.

100. Senior Thesis. Yr.; 2 cr. Staff.

For Undergraduates and Graduates

107. History of Chemistry. I; 2 cr. Mr. Kahlenberg.

108. Advanced Qualitative Analysis. II; 2 or more cr. Prerequisite: Course 1. Mr. Krauskopf.

112. Advanced Quantitative Analysis. A continuation of course 11. Mr. Lenher.

113. Water Analysis. II; 1 cr. Prerequisite: Chemistry 11. Mr. Schuette.

116. Industrial Organic Analysis. II; cr. to be arranged. Mr. Schuette.

118. Iron and Steel Analysis. Prerequisite: Chemistry 11. Mr. Kemmerer.

119. Organic Analysis. I; 3 cr. Prerequisites: Chemistry 11 and Chemistry 120. Mr. Schuette.

120. Organic Chemistry. Yr.; 2 cr. class; 1 to 3 cr. lab. Prerequisite: Chemistry 1. Mr. Fischer, Mr. Adkins, and staff.

121. Advanced Organic Preparations. Cr. to be arranged. Mr. Fischer, Mr. Adkins, Mr. Skinner.

123. Characterization of Organic Compounds. II; 3 cr. Prerequisite: Chemistry 120. A study of homologous reactions, separation, and identification of organic compounds. Designed as an aid to research involving organic compounds. Mr. Skinner.

124. Advanced Survey of Organic Chemistry. Yr.; 2 cr. Prerequisite: A year course in organic chemistry. Lectures and quizzes. Mr. Adkins.

126. Chemistry of Coal-Tar Dyes. II; 2 cr. class; 1 to 3 cr. lab. Mr. Fischer.

127. Chemotherapy. Cr. to be arranged. Miss Wakeman.

128. Chemistry of Organic Nitrogen Compounds. I; 2 cr. Mr. Fischer.

130. Physical Chemistry. Yr.; 5 cr. Prerequisites: Chemistry 1 and 11, and Physics 1 or 1Sc. Mr. Mathews, Mr. Daniels, and staff.

131. Electrochemistry. II; 2 or more cr. (Given 1921-22.) Mr. Clark.

132. Thermal Chemistry. I; 2 cr. (Given 1921-22.) Mr. Mathews.

133. Photochemistry. I; 2 or more cr. (Given 1922-23.) Mr. Mathews.

134. Chemical Equilibrium. Part I. Phase Rule. I; 1 cr. (Given 1922-23.) Mr. Bohnson. Part II. Chemical Dynamics. I; 1 cr. (Given 1923-24.) Mr. Walton.

135. Chemistry of Solutions. Yr.; 2 to 5 cr. (Given 1921-22.) Mr. Kahlenberg.

136. Relation of Physical Chemistry to other Sciences. I; 2 cr. (Given 1922-23.) Mr. Kahlenberg.

137. Colloids. II; 2 to 5 cr. (Given 1922-23.) Mr. The Svedberg, University of Upsala.

144. Thermodynamics as Applied to Chemistry. II; 2 cr. Prerequisites: Chemistry 130 and a course in calculus. (Given 1922-23.) Mr. Daniels.

146. Chemistry of Foods and their Adulterations. II; 5 cr. Prerequisites: One semester's work each in Chemistry 11 and 120. Mr. Schuette.

151. Advanced Inorganic Chemistry. 2 cr. (Given 1922-23.) Lectures alternate with Chemistry 255. Mr. Lenher.

155. Advanced Inorganic Analysis. 2 cr. Lectures. (Given 1921-22.) Alternates with Chemistry 251. Mr. Lenher.

For Graduates

209. Lives of Great Chemists. II; 1 cr. Mr. Kahlenberg.

222. Research in Organic Chemistry. Mr. Fischer, Mr. Adkins, Mr. Skinner.

224. Advanced Organic Chemistry. 2 cr. Lectures. A cycle of four semesters which students may enter any semester. Mr. Fischer.

235. Advanced Physical Chemistry. II; 2 cr. Prerequisite: Chem. 130. (Given 1921-22.) Mr. Daniels.

***237. Research in General or Physical Chemistry.** Especially designed for graduates seeking higher degrees. Mr. Daniels, Mr. Day, Mr. Kahlenberg, Mr. Mathews, Mr. Walton.

238. Chemical Seminary. Yr.; 1 cr. Mr. Kahlenberg.

239. Seminary in Physical Chemistry. Yr.; 1 cr. Mr. Mathews, Mr. Svedberg.

241. Advanced Plant Chemistry. Yr. Mr. Kremers.

242. Research. Special reference to the chemistry of foods. Mr. Fischer, Mr. Schuette.

243. Research. Volatile oils or other subjects of organic chemistry, with special reference to plant chemistry. Mr. Kremers.

247. Seminary in Organic Chemistry. Yr.; 1 cr. Mr. Fischer, Mr. Adkins, Mr. Skinner.

252. Inorganic Preparations. Prerequisite for research in inorganic chemistry. Mr. Lenher.

253. Research in Inorganic Chemistry. Mr. Lenher and Mr. Kemmerer.

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*Research in colloid chemistry for the second semester of 1922-23 will be under the direction of Prof. Svedberg of the University of Upsala.

CLASSICS

Emeritus PROFESSOR SMITH; PROFESSORS SHOWERMAN,* SLAUGHTER (CHAIRMAN); ASSOCIATE PROFESSORS FISKE, LAIRD; ASSISTANT PROFESSORS ALLEN, SABIN; ASSISTANTS MISS JENNINGS, MISS KING, MISS EMERSON.

ADAMS FELLOW, MR. LOGAN.

UNIVERSITY FELLOWS, MISS HANSEN, MISS SCOTT.

SCHOLAR, MISS BUNYAN.

The courses in Classics are divided into three groups:

I. Introductory courses (1-20) are for undegraduates and may not be counted for advanced degrees in Classics. Greek I and Latin 1 and 2 count toward the bachelor's degree and the language requirements in the University, but will not be accepted as part of a major in Greek or Latin.

II. 105-122 are open to students who have completed Greek 20 or Latin 7, or an equivalent, and may be counted toward the master's degree. Latin 90 and 107 are required of all students who desire the University Teachers Certificate in Latin.

III. 220-233 are for graduate students, but are not open to those who have completed less than 20 semester hours of undergraduate Greek or Latin.

Greek or Latin Majors

The requirements for a major in Greek or Latin are twenty-four credits as a minimum, not including Greek 1 or Latin 1 and 2. Greek 20, 105 and 106, to the extent of six credits, may be counted toward a major in Latin. At least six credits in addition to the thesis should be chosen from courses 105 to 122, but no specific requirement of courses is made. (See page 278 for requirements for Teachers Certificate.)

GREEK

For Undergraduates

1. Elementary Greek. I and II; 4 cr. Mr. Laird.

7. Xenophon and Homer. Yr.; 3 cr. Mr. Laird.

10. Homer and Plato. Yr.; 3 cr. Mr. Laird.

11. Prose Composition and Sight-Reading. Yr.; 2 cr. Mr. Laird.

20. Demosthenes and Thucydides. Yr.; 3 cr. Prerequisite: Course 10 or equivalent. Mr. Fiske.

*Absent on leave 1921-22.

For Undergraduates and Graduates

105. Greek Lyric Poets. Yr.; 3 cr. Mr. Showerman.

106. Greek Dramatic Poets. Yr. 3 cr. Mr. Showerman.

107. Greek Historians. Yr.; 2 cr. Mr. Laird.

108. Plato. Yr.; 2 cr. Mr. Laird.

109. Greek Orators. Yr.; 2 cr. Mr. Laird.

In courses 107, 108 and 109 the emphasis is placed on accuracy of interpretation.

110. Advanced Composition. Yr.; 1 cr. Mr. Laird.

112. General Survey of Greek and Roman Civilization. Yr.; 1 or 2 cr. (See Latin 112.) Mr. Showerman.

113. Classical Drama in English. I; 3 cr. A knowledge of Greek is not required. (See Comparative Literature 113.) Mr. Showerman.

122. Classical Art. Yr.; 3 cr. (See Fine Arts 122.) Mr. Showerman.

For Graduates

220. Greek Grammar. I; 2 cr. Mr. Laird.

221. Greek Syntax. II; 2 cr. Mr. Laird.

222. Greek Inscriptions. Yr.; 2 cr. Mr. Laird.

227. Greek Religion. I; 2 cr. Mr. Fiske.

230. Greek Seminary. Yr.; 2 cr. In 1922-23 the subject will be Thucydides. Mr. Laird.

LATIN

For Undergraduates

1. Elementary Latin. I or II; 5 cr. Mr. Fiske, Miss Jennings, Miss King, Miss Scott.

2. Caesar. I or II; 5 cr. Mr. Fiske, Miss Emerson, Miss Jennings, Miss King, Miss Scott.

3. Cicero. I or II; 4 cr. An additional hour for those who desire prose composition. Miss Allen, Miss Emerson.

4. Virgil's Aeneid, I-VI. I or II; 4 cr. Miss Allen, Miss King.

6. Cicero, Terence and Livy. Yr.; 4 cr. Mr. Fiske, Miss Allen.

7. Horace, Catullus, and Martial. Yr.; 3 cr. Mr. Slaughter.

8. Tibullus, Propertius and Ovid. II; 2 cr. Special reference to mythology. Miss Allen.

9. Pliny's Letters and Tacitus' Agricola. II; 2 cr. Miss Allen.

10. Classical Mythology. I; 1 or 2 cr. Latin not essential. Miss Allen.

90. The Teaching of Latin in Secondary Schools. I; 2 cr. Miss Sabin.

For Undergraduates and Graduates

107. Prose Composition. Yr.; 1 cr. 2 cr. if an additional elective hour of lectures on syntax is taken. Mr. Fiske.

108. Cicero's Letters. I; 3 cr. Mr. Slaughter.

109. Roman Drama. II; 3 cr. Mr. Slaughter.

110. Lucretius. II; 3 cr. Mr. Slaughter.

111. Virgil's Aeneid, VII-XII. I; 3 cr. Mr. Slaughter.

112. General Survey of Greek and Roman Civilization. Yr.; 1 or 2 cr. Greek and Latin not essential. Mr. Showerman.

114. Roman Philosophy. II; 2 cr. Miss Allen.

118. Roman Satire. Yr.; 2 cr. Mr. Fiske.

119. Roman Historians to Tacitus. Yr.; 2 cr. Mr. Fiske.

190. Background of High School Latin. II; 2 cr. Miss Sabin.

For Graduates

225. Latin Grammar. I; 2 cr. Mr. Laird.

226. Latin Syntax. II; 2 cr. Mr. Laird.

227. Roman Religion. II; 2 cr. Mr. Fiske.

228. Roman Archaeology. II; 3 cr. 112, with an additional hour for reports. Latin essential. Mr. Showerman.

229. Palaeography and Epigraphy. Yr.; 2 cr. Mr. Slaughter.

231. Latin Literature. Yr.; 3 cr. Miss Allen.

232. Literary Criticism. Yr.; 2 cr. Miss Allen.

233. Latin Seminary. Yr.; 2 cr. In 1922-23 the subject will be the *Monumentum Ancyranum*. Mr. Slaughter.

COMPARATIVE LITERATURE

COMMITTEE IN CHARGE: PROFESSOR OLSON; ASSOCIATE PROFESSORS DODGE (CHAIRMAN), FISKE, MORGAN, ZDANOWICZ.

There is no undergraduate major in comparative literature, but various courses on the list count toward a major in one or other of the language departments.

Graduate students who are working toward a doctor's degree in one of the language departments may take a first or second minor in comparative literature. The degree of master of arts

may also be taken in this field. All candidates for either degree who wish credit in comparative literature should consult the chairman, since each case requires a special arrangement of studies, which involves the election of courses not on this list.

If graduate students wish to elect courses that are conducted largely in translation, they should understand that, in these, graduate credit is given only when the work in at least one of the foreign languages involved is done in that language.

For Undergraduates

1. Ancient Classical Epic. II; 3 cr. Mr. Slaughter.

7. Contemporary Drama. Yr.; 2 cr. Does not count for English major. Mr. Pyre.

8. The Contemporary Novel. Yr.; 2 cr. Does not count for the English major. Mr. Lathrop.

50. Masterpieces of Romance Literatures in Translation. Yr.; 2 cr. Mr. Michell.

For Undergraduates and Graduates

102. Renaissance Epic. II; 2 cr. Does not count for the English major. Mr. Dodge.

113. Ancient Classical Drama. I; 3 cr. (See Greek 113.) Mr. Showerman.

141. Principles and Practice of Translating. II; 1 or 2 cr. For students with advanced training in German, French, or Italian. Counts for the German major. Mr. Morgan.

146. The Ballad. I; 2 cr. Counts for the English major. Mr. Beatty.

159. Germanic Mythology and Heroic Legends. II; 2 cr. Counts for the German major. Mr. Roedder.

For Graduates

244. The Medieval Drama. I; 2 cr. Its liturgical origins. Mr. Young.

248. Medieval Literature. Mr. Reed.

For Anglo-German relations, see German 248A.

ECONOMICS

PROFESSORS COMMONS, ELWELL, ELY, GARDNER, GILLIN, GILMAN, HESS, HIBBARD, KIEKHOFER (CHAIRMAN), MACKLIN, ROSS, SCOTT; ASSOCIATE PROFESSORS LESCOHIER, MCNALL; ASSISTANT PROFESSORS GLAESER, HAAKE, JEROME, KOLB, MCKAY, MCMURRY, S. L. MILLER, PERLMAN.

LECTURERS BEECHER, WITTE.

INSTRUCTORS CLARKE, FISHER, FRYE, GIBSON, HENSEY, HERTZLER, HINMAN, MERTZKE; ASSISTANTS BEAVER, BLANCHARD, BLOUGH, BOHLMAN, BRANDENBURG, COLBERT, DAVIS, DITTMER, DUWE, ELVEHJEM, GARRIGAN, HALE, JOME, LEE, LELAND, MCCRACKEN, MANNY, G. MILLER, MOREHOUSE, J. PERLMAN, ROTH, TYLOR.

RESEARCH ASSOCIATE WEHRWEIN, RESEARCH INSTRUCTOR SHINE, RESEARCH ASSISTANT ZEUCH.

FELLOWS, MISS PRYOR, MR. CLAGUE, MR. GIVENS.

SCHOLARS, MR. GRIMES, MR. TAPP.

ORGANIZATION

The Department of Economics, administratively organized in the College of Letters and Science and the College of Agriculture, is also a member of the Division of the Social Studies, including the Departments of Economics, History, Philosophy, Political Science, and the School of Law. This division has been established for the encouragement and supervision of graduate and research work in the social studies.

AIMS

The work of the Department of Economics has the following distinct but related aims:

1. To provide instruction in economics and sociology for undergraduates in all the colleges and schools of the University. Emphasis is placed upon the cultural importance, professional value and citizenship use of these studies.

2. To provide advanced work for graduate students working for higher degrees.

3. To assist and encourage the development of economic research studies.

4. To provide special professional training for business pursuits, industrial service, social work, and the public service.

Requirements for an Undergraduate Major

Students majoring in the Department of Economics may take their major in either economics or sociology. Thirty credits, selected from the courses offered by the department, are required for a major in economics and thirty in sociology. A maximum of forty credits may be counted toward graduation. Courses below marked by an asterisk may be taken in addition to these forty credits, but may not be included in them, since they must also be taken in addition to the 120 credits required for graduation from the College of Letters and Science.

ECONOMICS. For a major in economics, the thirty credits required must include the following:

8 credits in 1a and 1b (Elements of Economics).
3 credits in 130 (Statistics)
4 credits for the thesis and a minimum of
15 additional credits.

This minimum of fifteen additional credits must be in related courses to be selected in conference with the major adviser, and shall not include Economics 109 (Commercial Law) nor more than seven credits from Group XII (Sociology).

Lower group students, i. e. students who fail to earn fifty per cent more grade points than credits, may be barred from writing a thesis and from rights and privileges as to courses which upper group status confers.

The thesis may be written in any one of the fields designated in Groups II-XI as described on pages 166-169; usually a minimum of two related courses in the field selected is required as a background for the thesis.

SOCIOLOGY. For a major in sociology the thirty credits required must include the following:

4 credits in 1a (Elements of Economics)
3 credits in 130 (Statistics)
15 credits selected from Group XII (Sociology)
4 credits for the thesis
4 additional credits in economics.

These additional credits are to be selected in conference with the major adviser.

Lower group students, i. e. students who fail to earn fifty per cent more grade points than credits, may be barred from writing a thesis and from rights and privileges as to courses which upper group status confers.

COURSE IN COMMERCE. In place of majors as above defined, students in the Course in Commerce elect groups of courses arranged with a view to preparing them for the vocation they expect to enter. These groups are described on page 253 of this catalogue and in the special Bulletin of the Course in Commerce.

Requirements for the Master's Degree

The attention of graduate students is called to the general requirements of the Graduate School as set forth under Graduate School. (See Index.)

1. Candidates for the master's degree in the Department of Economics who have not had the equivalent of an undergraduate major are required to devote the greater part of their time—in some cases all—to this subject. If their preparation is notably inadequate, they are required to give more than one year to the work for the degree, the minimum addition being a summer session.

2. Candidates are required to present from the courses offered by the Department as a minimum, a number of graduate credits equal to one-half of the total graduate credits offered in support of the candidacy for the degree.

3. Candidates are expected on the basis of their undergraduate and graduate training to show thorough knowledge of the principles of economics, familiarity with statistical method and intensive knowledge of one or more of the special fields designated in Groups I-XII. The credits to be offered must be selected in conference with the major professor.

4. A thesis is regarded as part of the regular requirement for the degree. It shall, however, be waived

(a) automatically, if the candidate has received honors on a thesis presented at the University of Wisconsin for a baccalaureate degree.

(b) by vote of the Department, in the case of a student who has the Department's approval as a prospective candidate for the doctor's degree.

5. Candidates are admitted to the examination for the master's degree only in case their grades in all courses taken during the previous semester (or summer session) were good or above.

6. With the approval of the Graduate Committee written examinations for the master's degree will be held.

7. Candidates for the master's degree are expected to make written application for admission to candidacy for the degree. Blanks for this purpose may be procured in the office of the chairman of the department. They must be filed and favorably acted upon by the Department before the examination can be scheduled.

Requirements for the Doctor's Degree

Candidates for the degree of doctor of philosophy, majoring in the Department of Economics, will be examined in seven fields selected from the following three groups in the manner suggested.

GROUP A—GENERAL
(All four fields required of all)

1. Economic theory; 2. History of economic thought; 3. Statistics; 4. History of economic or social institutions.

GROUP B—MAJOR
(One to be selected)

1. Agricultural economics; 2. Accounting and business administration; 3. Finance, private and public; 4. Labor; 5. Land economics; 6. Public utilities; 7. Sociology.

(Other fields can be substituted in special cases and specialization in any Group A field can be substituted.)

GROUP C—MINORS
(Two to be selected)

1. Ancient history; 2. Medieval Europe; 3. Modern Europe; 4. England; 5. American colonies; 6. United States; 7. History of philosophy; 8. Ethics; 9. Logic; 10. Metaphysics; 11. Psychology; 12. History of political thought; 13. Comparative government; 14. International law; 15. Diplomacy (Organization and Practice); 16. World politics; 17. American national government and constitutional law; 18. State and local (including Municipal) government; 19. Administrative law; 20. Legislation; 21. Roman law and general legal history; 22. Agency; 23. Contracts; 24. Crimes; 25. Real and personal property; 26. Torts.

Substitutions can be made in special cases if the Department approves.

1. **Preliminary Preparation.** Candidates for the Ph.D. degree in the Department of Economics are assumed to be prepared by undergraduate studies to undertake advanced work in their major subject. If they are notably deficient in their preparation (taking the undergraduate major as a basis for judgment), the deficiency must be made up during the first year of graduate work, without counting toward the higher degree.

2. **Thesis.** The degree of Ph.D. in economics will be awarded only after examinations testing the scholarship of the candidate in major and minor subjects, and upon presentation of a sound thesis based on individual research. The thesis must be in good literary and technical form, ready for the the printer. At least thirty days before the candidate's final examination, it must be submitted for approval by a reading committee appointed by the Dean of the Graduate School.

3. **Examinations.** (a) Admission to candidacy for the Ph.D. degree will be based upon written preliminary examinations to be taken by the candidate at least seven months in advance of the date at which the degree is expected to be awarded. The preliminary examinations must include the fields of Groups A and B. If the minor fields of Group C are not covered by a written examination at the time of the preliminary, they shall be in part so covered at the time of the final examination.

(b) At the preliminary examination, the candidate may, with the approval of the professors concerned, indicate fields within his major and minor subjects (but not including the thesis or the field within which it falls), and may take a final examination in these fields. If he acquits himself to the satisfaction of the examiners he may be excused from further special examination in these fields.

(c) The final examination in the fields of the major subject, whenever taken will assume both broad and intensive understanding, without reference to particular courses of study which the candidate may have pursued. It will be, at least in part, oral, and in the presence of a committee named by the dean of the Graduate School; and it will range over the thesis and all of the fields presented by the candidate, except as specified fields may have been eliminated at the preliminary examination.

(d) The examination upon the minor subjects shall, in general, be based on the courses of study that have been pursued by the candidate in those fields.

4. Application for candidacy. Candidates will be expected to make written application for admission to candidacy for the degree. Blanks for this purpose may be procured in the office of the chairman of the department. They must be filed and favorably acted upon by the Department before the preliminary examination can be scheduled.

Economics and Special Professional Courses

COURSE IN COMMERCE

The importance of professionally trained men and women for business was recognized in the establishment of the Course in Commerce in 1900. Its work extends over four years and consists in large part of courses offered by the Department of Economics. All inquiries should be addressed to Professor W. A. Scott, Director of the Course in Commerce. (See pages 249ff. of this catalogue and the special Bulletin of the Course in Commerce.)

INDUSTRIAL RELATIONS

The Department of Economics, in cooperation with the Industrial Commission of Wisconsin and the Extension Division of the University, has arranged a sequence of courses preparing for the profession of employment management with business concerns, or for such positions as factory inspectors, statisticians, and special investigators with state and federal departments concerned with industrial and agricultural labor, or as employment agents in state and federal employment service.

Arrangements have been made with manufacturing establishments having successful labor departments, by which students serve an apprenticeship in order to get practical experience and to try out their personality and fitness in dealing with working people, foremen, superintendents, and employers.

Vocational conferences are held with the Industrial Commission, at which employment managers and service workers from various establishments, along with the deputies of the Commission describe the practical work of the profession. The Industrial Commission provides opportunities for practical work in safety and sanitation, handling child labor permits, and in reports and statistics required of employers, covering accidents, compensation, wages, etc.

Before or after taking these courses the student must demonstrate his personality and fitness by serving for a time, usually at his own expense, as an assistant to a recognized industrial service manager in an establishment carrying on this work. Employers in such establishments are usually willing to furnish this opportunity to properly recommended applicants.

The time and expense needed to get this practical experience will depend on the individual. Persons desiring to register for this apprenticeship may do so with the Secretary of the Industrial Commission, Madison. Selection of courses should be made on consultation with Professor Commons.

The Department of Economics recommends that those who plan to take this course should make their elections in the sophomore year in the course in Elements of Economics.

A suggested sequence of courses is as follows:

Sophomore Year

General Courses

Elements of Economics (Economics 1a and 1b).

Special Courses

First Aid to the Injured (Physical Education 16).

Junior and Senior Years

General Courses

Statistical Method (Economics 130).
Economic Statistics (Economics 132).
Labor Market, Industrial and Agricultural (Economics 174).
Americanization, Industrial and Educational (Economics 170).
Evolution of Industrial Society (Economics 120).
Labor Problems (Economics 122).
American Labor History (Economics 145).
Foreign Labor Movements (Economics 148).
Labor Legislation (Economics 123).
Introduction to the Constitution (Political Science 112).
Principles of Legislation (Political Science 126).
General Sociology (Economics 140).
Poverty and Relief (Economics 141).

Special Courses

Personnel Management (Economics 171).
Job Analysis (Industrial Education 120).
Employee Training (Industrial Education 121).
Vocational Psychology (Psychology 115).
Correction of Speech Disorders (Speech 125).
Mental Tests (Education 244).
Industrial Housing (City Planning 102).
Shop Practice (Engineering College).

Senior Year

General Courses

Socialism and Capitalism (Economics 144).

Theses in Labor Legislation, Labor Problems, Labor Market, Industrial Management (Economics 100, Mr. Commons, Mr. Witte, Mr. Perlman, Mr. Lescohier and Mr. Wisler).

Special Courses

Labor and Production Management (Economics 149).

Technique of Field Investigation, Training Course (Economics 175).

SOCIAL WORK

Under the changed conditions which the World War has brought about, social organizations of all sorts are broadening the scope of their work. Consequently, the demand for trained workers in the various fields of social service has increased enormously. Organizations such as the Associated Charities and the Red Cross, dealing with family problems, are seeking men and women trained for this work. The same is true of agencies dealing with community organization, such as community centers and public and social welfare societies. Other things being equal, they prefer the person who has had university work in sociology and economics.

For a number of years graduates of the University of Wisconsin who have majored in sociology have found ready entrance into some field of social work. The suggestion of a group of studies designed to assist students who wish to enter some form of social service ought to be of distinct value to such students.

Workers in child welfare, anti-tuberculosis, juvenile protection, Red Cross, associated charities, and similar organizations need a background of sociology and economics. This the University can provide.

Increasing numbers of college students are looking forward to some kind of social work. The Department of Economics, wishing to meet the demand by social agencies for university graduates who have some understanding of social problems, and wishing to assist college students in the selection of such courses as will be most valuable to those looking forward to social work as a vocation, has arranged a program of courses training for social work. These courses, while distinctly cultural in their nature, serve also to prepare both for professional courses in the schools of philanthropy, and to give a background to those who will secure their training through an apprenticeship in some good social agency.

During the first two years in college, students following this program will devote most of their time to foundational studies and studies preparatory to the courses more directly training for social work.

The special studies of the last two years of this program should be selected by the student in consultation with his adviser. The selection will be made with direct reference to preparing the student so far as possible for the particular kind of social work in view. The following courses are suggested:

Freshman Year

English ..... 6 credits	History ..... 6 credits
Natural Science .....10 credits (Biology 1 is suggested)	*Foreign Language... 8 credits

Sophomore Year

Natural Science.....10 credits (If not taken in Freshman year)	Social Origins..... 4 credits (Economics 46)
*Foreign Language... 8 credits	Suggested Electives .....0-18 credits
Elements of Economics ..... 8 credits (Economics 1a and 1b)	

Choice advised from (1) Elementary Law (Political Science 2); Psychology (Philosophy and Psychology 1); Elementary Logic (Philosophy and Psychology 11); (2) History of the U. S. (History 4); History of the West (History 111); American Government and Politics (Political Science 7); General Zoology (Zoology 1); Household Bacteriology (Agricultural Bacteriology 4).

*Required of students taking the B. A. degree.

Junior Year

Economics .....6 credits
Choice advised from (1) Labor Problems (Economics 122); Labor Legislation (Economics 123); (2) American Labor History (Economics 145); Socialism and Capitalism (Economics 144); Evolution of Industrial Society (Economics 120).

Sociology .....9 credits
Choice advised from (1) Criminology and Penology (Economics 161); Social Psychology (Economics 139); Poverty and Relief (Economics 141); Rural Life (Economics 25); (2) Social Problems (Economics 4).
Statistics ..... 3 credits Selected Electives.... 9 credits

(Economics 130)
Choice advised from (1) Heredity and Eugenics (Zoology 6); Abnormal Psychology (Philosophy and Psychology 107); Community Recreation (Physical Education 80); (2) Social and Political Ethics (Philosophy and Psychology 42); Home Economics 1; First Aid to the Injured (Physical Education 16); Americanization (Economics 170); The American People (Economics 172).
Free Electives.....3 credits

Senior Year

Sociology.....13 credits
Choice advised from (1) Methods of Social Service (Economics 147); Principles of Social Case Work (Economics 164); Rural Life (Economics 25); (2) General Sociology (Economics 140).

Thesis ..... 4 credits
Selected Electives .....15 credits
Choice advised from (1) Advanced Composition (English 6); Newspaper Reporting and Correspondence (Journalism 2); Correction of Speech Defects (Speech 25); (2) Home Economics 7, 10, 123; City Planning 101, 102.

Students taking these courses are expected to conform to the usual requirements of the University for graduation, and except in the case of adult specials, must meet the requirements for a major in sociology.

All inquiries concerning training for social work should be directed to Professor J. L. Gillin.

LAND ECONOMICS

The Department of Economics in cooperation with the Department of Agricultural Economics and various other departments of the University has arranged a combination of courses which relate to land as an economic factor in production and distribu-

tion. The aim will be to treat from the economic point of view the main kinds of land, e. g., agricultural, urban, mineral, forest land.

Courses in land economics may be taken with other studies for their cultural value and may also be pursued as a preparation for a variety of occupations.

The first two years' work of those desiring an undergraduate major should be devoted mainly to studies of a liberal character, such as literature, philosophy and languages. In the sophomore year Economics 1a and 1b or Agricultural Economics 1 should be taken to prepare for specialization in the junior and senior years.

Students wishing to specialize in land economics are advised to take the following courses offered by the Department of Economics:

Elements of Economics (Economics 1a and 1b), or Agr. Econ. 1; Statistics (Economics 130); Evolution of Industrial Society (Economics 120); Money and Banking (Economics 5); Labor Problems (Economics 122); Rural Life (Economics 25); Marketing of Farm Products (Economics 128); Seminary in Marketing (Economics 228); Advanced Agricultural Economics (Economics 229); Land Problems (Economics 226); Land Economics (Economics 221); Urban Land Economics (Economics 179); Thesis.

The following courses are suggested from the courses offered by other departments in the University, but naturally there will be variation in accordance with the special purpose of the student whose needs will be considered in consultation with his adviser:

Agricultural Geography (Geology 106); Advanced Economic Geography (Geology 127); Economic Aspects of Geology (Geology 113); Economic Aspects of Mining (Mining 150); Origin and Classification of Soils and Agricultural Climatology (Soils 125); Forestry (Forestry 1); Landscape Gardening ((Horticulture 6); City Planning 101, 102, 103.

Special attention is given to graduate students who are preparing for the master's or doctor's degree, or who are studying without reference to a degree. Opportunities will be afforded for special research in Marketing and Cooperation, in Land Settlement and Land Tenure Problems, in Urban Land Problems, in Land Taxation, in Rural and City Planning.

Inquiries should be addressed to Professor Richard T. Ely.

AGRICULTURAL ECONOMICS

The courses in agricultural economics are intended to give the student a knowledge of the economic principles which relate to

the production and marketing of farm products, and to the economic condition of the agricultural classes. The Department prepares its students for positions as teachers and research workers in the field of agricultural economics, for positions in agricultural marketing, and for practical work as farm managers. Inquiries may be directed to Professor B. H. Hibbard.

Description of Courses

Courses 1-100 are open to undergraduates and carry no graduate credit.

Courses 101-199 are open to both graduates and undergraduates.

Courses 200-299 are open only to graduates.

I. ECONOMIC THEORY AND ITS HISTORY

1a. Elements of Economics. I or II; 4 cr. Economic struggle, production, value and distribution, labor in industry. Mr. Kiekhofer, Mr. Baber, Mr. Beaver, Mr. Blanchard, Mr. Bohlman, Mr. Brandenburg, Mr. Colbert, Mr. Davis, Mr. Dittmer, Mr. Dorau, Mr. Elvehjem, Mr. Hale, Mr. Hertzler, Mr. Jome, Mr. Lee, Mr. McCracken, Mr. McKay, Mr. Manny, Mr. Mertzke, Mr. Miller, Mr. Tylor.

1b. Elements of Economics. I or II; 4 cr. Exchange, consumption, public finance, economic policies. Prerequisite: Economics 1a. Mr. Kiekhofer, Mr. Baber, Mr. Beaver, Mr. Blanchard, Mr. Bohlman, Mr. Brandenburg, Mr. Colbert, Mr. Davis, Mr. Dittmer, Mr. Dorau, Mr. Elvehjem, Mr. Hale, Mr. Hertzler, Mr Jome, Mr. Lee, Mr. McCracken, Mr. McKay, Mr. Manny, Mr. Mertzke, Mr. Miller, Mr. Tylor.

118. Problems of Property. I; 3 cr. Prerequisite: Economics 1b. Mr. Ely, Mr. Glaeser.

199. History of Economic Thought. I; 3 cr. Prerequisite: Economics 1b. Mr. Ely.

200. [1]The Classical Economists. I; 3 cr.; II; 1 cr. Prerequisite: Economics 1b. (Given 1922-23.) Mr. Scott.

201. [1]Critics of the Classical Economists. I; 3 cr.; II; 1 cr. Prerequisite: Economics 1b. (Given 1923-24.) Mr. Scott.

202. [1]The Austrian School and Recent Developments. I; 3 cr.; II; 1 cr. Prerequisite: Economics 1b. (Given 1921-22.) Mr. Scott.

[1] Courses 200, 201, 202 constitute a three-year cycle, one being given each year.

210. [2]Value and Valuation—Legal Theories. Yr.; 2 cr. (Given 1922-23.) Mr. Commons.

211. [2]Value and Valuation—Economic Theories. Yr.; 2 cr. (Given 1923-24.) Mr. Commons.

212. [2]Value and Valuation—Administration. Yr.; 2 cr. (Given 1921-22.) Mr. Commons.

220. Property and Contract. I; 3 cr. Mr. Ely.

222. Custom and Competition. I; 3 cr. Mr Ely.

223. Monopolies and Trusts. II; 3 cr. Mr. Ely.

250. Advanced Economics. I; 3 cr.; II; 1 cr. Mr. Kiekhofer.

267. Round Table in Economic Theory. Yr.; 2 cr. Prerequisite: one year of graduate work. Mr. Ely.

II. AGRICULTURAL ECONOMICS

25. Rural Life. II; 3 cr. Prerequisites: Economics 1a, 4, and 46. Mr. Kolb.

125. Rural Organization. II; 2 cr. Prerequisite: senior standing. Mr. Kolb.

128. Marketing of Farm Products. II; 3 cr. Prerequisite: Economics 1a. Mr. Macklin.

152. Farmer Movements. I; 2 cr. Prerequisite: Economics 1a. Mr. Hibbard.

227. Economic History of Agriculture. II; 2 cr. Mr. Hibbard.

228. Seminary in Marketing. II; 2 cr. Prerequisite: Economics 128 or concurrent registration. Mr. Macklin.

229. Advanced Agricultural Economics. Yr.; 2 cr. Mr. Hibbard.

III. ACCOUNTING

***8a, 8b. The Elements of Accounting.** Yr.; 2 cr. Mr. Elwell, Mr. McMurry, Mr. Gibson, Miss Hensey, Mr. Duwe, Mr. Blough, Miss Roth, Mr. Leland.

181. Theory and Practice of Accounting. I or II; 3 cr. Prerequisite: Economics 8a, 8b. Mr. Elwell, Mr. McMurry, Mr. Gibson, Miss Hensey, Mr. Duwe, Mr. Blough.

182. Cost Accounting. II; 2 cr. Prerequisite: A minimum grade of 85 in Economics 181. Mr. Elwell, Mr. McMurry.

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[2]Courses 210, 211, 212 constitute a three-year cycle, one being given each year.

*In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation, except by students in the Course in Commerce.

183. Advanced Accounting Problems and Income Taxes. I; 2 cr. Prerequisite: A minimum grade of 85 in Economics 181. Mr. McMurry.

184. Auditing. II; 2 cr. Prerequisite: A minimum grade of 85 in Economics 181. Mr. McMurry.

186. Accounting Systems. I; 2 cr. Prerequisites: Minimum grades of 85 in Economics 181 and 182. Mr. Elwell.

187. Governmental Accounting. II; 1 cr. Prerequisites: Minimum grades of 85 in Economics 181 and 182. Mr. Elwell.

IV. BUSINESS ADMINISTRATION AND COMMERCIAL LAW

***11. Business Management.** I; 2 cr. Fundamentals. Prerequisite: Economics 1a and 80 grade points. II; 2 cr. Problems. Prerequisite: A minimum grade of 80 in Economics 11. Mr. Haake, Mr. Bohlman.

***12. Credits and Collections.** II; 2 cr. Prerequisites: Economics 5 and 11. Mr. Haake, Mr. Bohlman.

***13. Marketing Methods.** I; 2 cr. Prerequisite: junior standing. Mr. Gardner, Mr. Fisher, Mr. Hinman, Mr. Berge.

***14. Sales Administration.** II; 2 cr. Prerequisite: Economics 13. Mr. Gardner, Mr. Fisher, Mr. Hinman, Mr. Berge.

****15. Retail Advertising.** I; 2 cr. Prerequisite: English 4. Mr. Gardner, Mr. Fisher, Mr. Hinman.

****16. Advertising Campaigns.** II; 2 cr. Prerequisites: Economics 13 and 15. Mr. Gardner, Mr. Fisher, Mr. Hinman.

109. Commercial Law. Yr.; 4 cr. Prerequisite: senior standing or consent of instructor. Mr. Gilman, Miss Frye, Mr. Garrigan, Mr. King.

V. ECONOMIC POLICIES

153. International Economic Policies. II; 2 cr. Prerequisites: Sixteen credits in economics, including Economics 1b, and upper group status. Mr. Kiekhofer.

155. National Economic Policies. II; 2 cr. Prerequisites: Sixteen credits in economics, including Economics 1b, and upper group status. Mr. Kiekhofer.

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*In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation, except by students in the Course in Commerce.

**In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation except by students in the Course in Commerce, and the Course in Journalism majoring in advertising.

VI. INSURANCE

121. Property Insurance. II; 2 cr. Prerequisite: Economics 1a. Mr. Beecher.

138. Life Insurance. I; 2 cr. This course should precede Mathematics 124. Prerequisite: Economics 1a. Mr. Beecher.

238. Seminary in Insurance. Yr.; 2 cr. Prerequisite: Economics 1a. Mr. Beecher.

VII. LABOR

122. Labor Problems. I; 3 cr. Prerequisite: Economics 1b. Mr. Perlman.

123. Labor Legislation. I; 3 cr. Prerequisite: Economics 1b. Mr. Witte.

144. Public Value, Socialism and Capitalism. Yr.; 3 cr. Prerequisites: Economics 1a and senior standing. Mr. Commons.

145. American Labor History. II; 3 cr. Prerequisite: Economics 1b. Mr. Perlman.

148. Foreign Labor Movements. II; 3 cr. Prerequisite: Economics 1a. Mr. Perlman.

149. Labor and Production Management. Yr.; 1 cr. Prerequisites: Economics 171, senior standing and consent of instructor. Mr. Wisler.

171. Personnel Management. I; 3 cr. Prerequisites: Economics 1b and junior standing. Mr. Lescohier.

174. Labor Market. II; 3 cr. Prerequisite: Economics 1b. Mr. Lescohier.

175. Technique of Field Investigation. II; 2 cr. Prerequisites: senior standing and consent of instructor. Mr. Lescohier.

265. Seminary in Labor Legislation, Labor Problems, and Labor Market. Yr.; 2 cr. Mr. Commons, Mr. Lescohier, Mr. Perlman, Mr. Witte.

VIII. LAND ECONOMICS

120. Evolution of Industrial Society. Yr.; 3 cr. Prerequisite: Economics 1a. Mr. Ely, Mr. Perlman.

179. Urban Land Economics. II; 3 cr. Prerequisite: Economics 1b. Mr. Ely, Mr. Glaeser.

221. Land Economics. Yr.; 3 cr. Mr. Ely, Mr. Wehrwein.

226. Land Problems. Yr.; 2 cr. Mr. Ely, Mr. Hibbard.

IX. PRIVATE FINANCE

5. Money and Banking. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Scott, Mr. Haake, Mr. McKay, Miss Frye, Mr. Dorau, Mr. Jome.

110. Investments. II; 2 cr. Prerequisites: Minimum grades of 80 in Economics 137 and 181 and senior standing. Mr. Gilman.

133. Financial History of the United States. II; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5 and upper group status. Given in alternate years with Economics 134. (Given 1920-21.) Mr. Scott.

134. The Money Market. II; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5 and upper group status. Given in alternate years with Economics 133. (Given 1921-22.) Mr. Scott.

137. Corporation Finance. I; 3 cr. Prerequisite: Minimum grades of 80 in Economics 5 and 8b. Mr. Gilman, Miss Frye, Mr. Haake, Mr. Blough, Mr. Dorau.

185. Analysis of Financial Reports. II; 2 cr. Prerequisites: Minimum grades of 85 in Economics 137 and 181, senior standing and consent of instructor. Mr. Gilman.

191. Investment Banking. I; 3 cr. Prerequisite: Economics 5. Mr. McKay, Mr. Blanchard.

192. Banking Systems. II; 2 cr. Prerequisite: Economics 5. Mr. McKay.

X. PUBLIC FINANCE

3. Elements of Public Finance. I; 3 cr. Prerequisite: Economics 1a. Mr. Jerome, Mr. Jome.

124. Taxation. II; 3 cr. Prerequisite: Economics 3 or graduate standing. Mr. Jerome.

257. Seminary in Taxation. Yr.; 2 cr. Mr. Jerome.

XI. PUBLIC UTILITIES

135. Railway Transportation. I or II; 3 cr. Prerequisite: Economics 1b. Mr. Miller, Mr. Dorau.

136. Railway Problems. II; 3 cr. Prerequisite: Economics 135. Given in alternate years with Economics 168. (Given 1922-23.) Mr. Miller, Mr. Dorau.

142. Public Utilities. Yr.; 2 cr. Prerequisite: Economics 1a and junior standing. Mr. Glaeser.

168. Railway Finance. II; 3 cr. Prerequisite: Economics 135.

Given in alternate years with Economics 136. (Given 1921-22.) Mr. Miller, Mr. Dorau.

266. Seminary in Public Utilities. Yr.; 2 cr. Prerequisite: Economics 142. Mr. Glaeser.

XII. SOCIOLOGY

4. Social Problems. II; 3 cr. Mr. Ross, Mr. Hertzler.

46. Social Origins. Yr.; 2 cr. Mr. Gillin, Mr. Hertzler, Mr. Baber, Mr. Dittmer.

139. Social Psychology. I; 3 cr. Prerequisite: Junior standing. Mr. Ross, Mr. Hertzler, Mr. Colbert.

140. General Sociology. II; 3 cr. Prerequisite: Economics 1a or senior standing. Mr. Ross, Mr. Hertzler, Mr. Colbert.

141. Poverty and Relief. I; 3 cr. Prerequisites: Economics 1a, 46. Mr. Gillin, Mr. Tylor, Mr. Colbert.

147. Methods of Social Case Work. II; 2 or 4 cr. with field work. Prerequisite: Economics 164. Mr. Gillin, Miss Clarke.

161. Criminology and Penology. II; 3 cr. Prerequisites: Economics 1a, 46. Mr. Gillin, Mr. Tylor, Mr. Colbert.

164. Principles of Social Service. I; 2 or 4 cr. with field work. Prerequisites: Economics 1a, 46, and senior standing. Mr. Gillin, Miss Clarke.

170. Americanization. II; 3 cr. Prerequisites: Junior standing and Economics 1a. Mr. Lescohier.

172. The American People. I; 3 cr. Prerequisites: Junior standing and Economics 1a. Mr. Lescohier.

256. [1]Development of Correctional Policies. I; 2 cr. (Given 1922-23.) Mr. Gillin.

258. [1]Degeneracy and Society. I; 2 cr. (Given 1923-24.) Mr. Gillin.

259. [1]Development of Poor Law Policy. I; 2 cr. (Given 1924-25.) Mr. Gillin.

260. [2]Seminary on the Demography and Sociology of Cities. I; 2 cr. (Given 1923-24.) Mr. Ross.

261. Research Seminary. II; 2 cr. Mr. Ross.

262. [2]Seminary on the American Family. I; 2 cr. (Given 1922-23.) Mr. Ross.

263. [2]Seminary on the Dynamics of Population. I; 2 cr. (Given 1921-22.) Mr. Ross.

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[1] Courses 256, 258, 259 constitute a three-year cycle, one being given each year.

[2] Courses 260, 262, 263 constitute a three-year cycle, one being given each year.

269. Research Seminary. II; 2 cr. Mr. Gillin.

Students majoring in sociology may include in the list of courses accepted for a major in sociology: Economics 25, Rural Life (See Group II, Agricultural Economics).

XIII. STATISTICS

130. Statistical Method. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Jerome, Mr. Blanchard, Mr. Dittmer, Mr. Elvehjem, Mr. Jome, Mr. Lee, Mr. Mertzke, Mr. J. Perlman.

131. Prices, Wages, and Cost of Living. II; 3 cr. Prerequisites: Economics 1a, 130. Mr. Hess.

132. Economic Statistics. II; 3 cr. Prerequisite: Economics 130. Mr. Jerome, Mr. J. Perlman.

EDUCATION

PROFESSORS HENMON (CHAIRMAN), O'SHEA; ASSOCIATE PROFESSORS CHASE, CLAPP, T. LLOYD-JONES, MILLER, UHL; LECTURER FITZPATRICK; ASSISTANT PROFESSOR WEST; INSTRUCTOR HOYT; ASSISTANTS HEUBNER, MCCRORY, ROLFE.

The chief aim of this department is to treat the history, foundations, and practices of education in the spirit of contemporary thought. To this end courses are offered in each of the following groups: (1) History of education; (2) Principles of education and mental development in the child and in the race; (3) Educational psychology; (4) Organization, administration, and supervision of education; (5) Educational practice under supervision.

Seminary and research courses in each of the main divisions of education are offered.

Students below the junior class are not admitted to any course in education, except Course 6 *(open to sophomores), without the written permission of the instructor in charge. This permission will be granted only to mature students and to students properly prepared who are under the necessity of leaving the University, before graduation, to enter teaching.*

Courses 6, 11, 31, 41, 90 and A are regarded as elementary, and as introductory to the advanced courses given in the department. These courses are not open for election by graduates of the professional courses of the normal schools without special action by the department.

Major In Education

Undergraduate students selecting education as a major subject are required to obtain credit in approved courses amounting to twenty-two hours, including the thesis. Graduate students selecting education as a major will be expected to show familiarity with the general aspects of each of the divisions of education before they will be admitted to candidacy for either a master's or a doctor's degree.

Master's Degree—Summer Session and in Absentia Work

All candidates for the degree of Master of Arts or the degree of Master of Philosophy, fulfilling the general university requirements therefor by study during the summer sessions and *in absentia*, and presenting education as a major subject, must comply with the following special requirements:

(1) Ordinarily, three summer sessions in residence at this University, in addition to *in absentia* work, are required.

(2) Candidates who have not already satisfactorily completed courses in psychology and education equivalent to the existing requirements for the University Teachers Certificate will be required to devote at least four summer sessions, together with *in absentia* work, to the fulfillment of the requirements.

(3) All candidates must pass satisfactory examinations in the four divisions of Education: (a) The History of Education; (b) The Principles of Education and Mental Development; (c) Educational Psychology; (d) Educational Organization, Supervision and Administration. Each year, in the month of June, during the period of *in absentia* study, every candidate must pass an examination in at least one of these divisions. The reading required for these examinations is listed in a special department circular.

(4) Each candidate must prepare a thesis presenting the result of original work. The thesis must be begun during the first year of *in absentia* study, and each summer, during the period of *in absentia* study, a satisfactory report must be made thereon to the instructor under whom it is being prepared. The thesis must be completed during the last summer of residence study.

(5) Each candidate must have an adviser in the division in which his thesis is being prepared. Each summer this adviser must approve the candidate's program of residence and *in absentia* study.

(6) Each candidate must earn at least four credits in graduate courses in education during each summer of residence study.

(7) At the opening of each summer session every candidate should secure the approval of the Dean of the Graduate School for his proposed course of study.

University Teachers Certificate

The requirements for the University Teachers Certificate will be found on page 272.

For Undergraduates

6. Introduction to Education. I or II; 2 or 3 cr. Mr. Clapp.

11. Mental Development. I or II; 2 or 3 cr. Mr. O'Shea.

31. Principles of Education. I or II; 3 cr. Mr. Uhl.

41. Educational Psychology. I or I.; 2 or 3 cr. Prerequisite: Psychology (Philosophy 1). Mr. West.

90. Technique of Instruction. I or II; 2 cr. Mr. Uhl.

95. The Teaching of General Science. II; 2 cr. Mr. Davis.

A. Educational Practice. I or II; 2 cr. Open only to seniors and graduate students qualifying for the University Teachers Certificate. It must be preceded by, or taken simultaneously with, either a departmental teachers course or Education 90. Mr. Miller.

For Undergraduates and Graduates

101. History of Modern European Education. II; 3 cr. Mr. Chase.

102. History of Ancient and Medieval Education. I; 3 cr. Mr. Chase.

103. History of American Education. II; 3 cr. Mr. Chase.

104. State School Systems. II; 3 cr. Prerequisites: Education 6 or equivalents. Mr. Clapp.

107. School Surveys and Tests. II; 2 cr. Prerequisite: Education 110 or equivalent. Mr. Clapp.

110. Supervision of Instruction. I; 3 cr. Prerequisites: at least one course in educational psychology, or its equivalent, and teaching experience. Mr. Clapp.

112. Social Development and Education. I or II; 2 or 3 cr. Mr. O'Shea.

113. Principles of American Education. I or II; 2 or 3 cr. (Omitted 1921-22.) Mr. O'Shea.

142. Experiments in Educational Psychology. I or II; 1 or 2 cr. Prerequisite: Education 41 or equivalent. Mr. West.

144a. Advanced Educational Psychology. I; 2 cr. The psychology of individual differences. Prerequisite: Education 41 or equivalent. Mr. Henmon.

144b. Advanced Educational Psychology. II; 2 cr. The psychology of learning. Prerequisite: Education 41 or equivalent. Mr. Henmon.

145. Educational Measurements. I; 2 cr. Prerequisite: Education 41 or equivalent. Mr. West.

146. Experimental Education. II; 2 cr. Prerequisite: Education 41 or equivalent. Mr. West.

For Graduates

The following courses are open to graduate students and to normal school graduates of senior standing majoring in education.

205. European School Systems. I; 2 cr. Prerequisites: Education 6 and 104, or equivalents. (Omitted 1921-22.) Mr Clapp.

220. Seminary in Education. Yr.; 1 or 2 cr. Prerequisite: any two courses in education. Mr. O'Shea.

231. Seminary in Administration and Supervision of Education. Yr.; 1 or 2 cr. Prerequisite: Education 104 or 110, or equivalent. Mr. Clapp.

244. Mental Tests. Yr.; 2 cr. Prerequisite: Education 41 or equivalent. Mr. West.

248. Seminary in Educational Psychology. Yr.; 1 or 2 cr. Prerequisite: Education 41 or equivalent. Mr. Henmon.

251. Seminary in Public School Administration. Yr.; 1 or 2 cr. Mr. Fitzpatrick.

ENGLISH

PROFESSORS HUBBARD, LATHROP, PYRE, YOUNG (CHAIRMAN), GARDNER, O'NEILL; ASSOCIATE PROFESSORS CAIRNS, DODGE, W. E. LEONARD, MANCHESTER, ROE; ASSISTANT PROFESSORS BEATTY, S. A. LEONARD, NARDIN, TAYLOR; INSTRUCTORS BATCHELOR, BIERSTADT, BLAMPIN, BROWN, DOOLEY, FERNBERG, FULCHER, GLICKSMAN, HARKNESS, LASLEY, LEWIS, LORENZ, MCGINNIS, REID, ROBERTS, RYAN, SCALLON, SCHLICHER, SCHWAB, SHARPE, STROUT, WALES, WALLERSTEIN, WHITE, WILLSON, WILSON, ZUCKER; ASSISTANTS CLUGSTON, NICHOLSON, POUDER, SCHOLTZ, SCOTT, SPENCE, STEBRETT, STEVENS, STORY, THORNBURY, WING, WRAY.

The courses of the department are intended to serve five main purposes: (1) To train students in the use of English as a means of expression and communication for the ordinary demands of social, commercial, and professional life; (2) to continue that training to suit the special needs of those who intend to take up literary or journalistic work; (3) to develop the literary sympathy and appreciation and to extend the knowledge of those who find in English and American literature the readiest means of obtaining the advantages of a liberal education; (4) to prepare teachers of English for school and college work; (5) to fit students for and assist them in scholarly investigation. Most of the courses will be found to meet all these ends, directly or indirectly, but some are especially directed to one or two in particular. Every student is encouraged to select the courses most suited to his or her own needs, but certain courses are prescribed as necessary for adequate equipment in particular lines of work.

Undergraduate Courses

All students in the Colleges of Letters and Science, Engineering, and Agriculture are required to take Freshman English (Course 1 or its equivalent). The General Survey (Course 30) or Introduction to English Literature (Course 33) is prerequisite to the other literature courses, and either of these courses is also recommended for students who desire a general knowledge of English literature but are unable to carry their study of the subject further.

Students taking English as an elective course outside the major study are advised to select courses mainly from the undergraduate group. Those who make English their major study, after providing for the required courses, may choose at will from this or the following group (for undergraduates and graduates).

English as a Major Study

Students intending to choose English as their major study are strongly recommended to take General Survey (30) in their sophomore year.

At the beginning of the year in which they decide upon their major subject they should consult the chairman of the department, who will assign them to an adviser. They are required to take twenty-four credits as a minimum, exclusively of the thesis

and of course 1 (required of all students). The twenty-four credits must include course 30 (6 credits) or 33 (4 credits), and one course from each of the following groups: (a) 36 or 137; (b) 34, 35 or 40; (c) 31, 120a, 157, 158, 159 or 160.

A total of thirty-six credits, in addition to the thesis and course 1, may be elected in this department.

Candidates for the degree of Ph.B. choosing English as their major subject are required to fulfill the same conditions as obtain for the B.A. degree.

For Teachers

The requirements for the teachers certificate for those electing English as their major or minor will be found on page 276.

Library Work

Students who take the joint course arranged at the University and State Library School may find it to their advantage to choose English as their major study. Of the twenty hours of library work for which credit is given by the University four may be counted toward an English major if the candidate so desires, reducing the minimum departmental requirement to twenty credits (exclusive of the thesis and course 1). In addition to courses 1 and 30, which are required of all, library students are recommended to select courses of a more general character from the group primarily for undergraduates, especially 34, 35, 36 or 137, 39, 40. For detailed information in regard to preparation for library work, see Library School, page 266.

The M.A. Degree

Candidates for the degree of master of arts who intend to take one-half or more of their work in English should consult the chairman of the department as to the courses most suitable to their purpose. They are required to show that they have had sufficient preliminary training in English language and literature to understand graduate work, or to complete such preliminary training in addition to the graduate work required; if they have not taken an undergraduate course in the English language, they will be required to take at least three credits in that subject, but this requirement may be satisfied by an adequate training in

Greek and Latin. They are expected to take at least two unit hours each semester from the courses restricted to graduates.

M.A. in Absentia

The advanced study required for the M.A. *in absentia* in this department consists of two graduate courses taken in each of three consecutive summer sessions, with work done in continuation of one of the two courses each year. Particulars may be obtained from the chairman, Department of English.

The Doctor's Degree

Special requirements for the doctor's degree (English major) are:

1. The general history of English literature.
2. Anglo-Saxon and Middle English.
3. Special knowledge of the particular field chosen for study.
4. Reasonable acquaintance with the political and social history of the period.
5. Auxiliary studies, varying according to the particular field chosen. For example: for the sixteenth century, Latin, Italian, German, and French; for the classical period, Latin and French; for the romantic period, and for the nineteenth century, French and German.
6. A thesis and examination.

RHETORIC AND COMPOSITION

For Undergraduates

A. English Composition. For students who have failed to pass the test prescribed on page 110. Three hours a week; no undergraduate credit. Miss Scallon and staff.

1a. Freshman English. I or II; 3 cr. Required of freshmen in the Colleges of Agriculture and Engineering, and of freshmen in the College of Letters and Science who do not take English 12a (see below). Mr. Taylor and staff.

1b. Freshman English. I or II; 3 cr. Continuation of 1a. Required of freshmen in the College of Agriculture and Engineering, and of freshmen in the College of Letters and Science who do not take English 12b (see below). On the completion of this

course, a provisional pass mark is given; if subsequently a student is reported deficient or careless in English composition, he may be required to take additional work in that subject. Mr. Taylor and staff.

12a. Freshman Rhetoric. I; 5 cr. Required of those freshmen looking forward to the degree Ph.B., General Course, who do not take foreign language in their freshman year. (Omitted 1921-22.) Mr. Lathrop.

12b. Freshman Rhetoric. II; 5 cr. Continuation of 12a; required of the same category of students. On the completion of course 12b a provisional pass mark is given; if subsequently a student is reported deficient or careless in English composition, he may be required to take additional work in that subject. (Omitted 1921-22.) Mr. Lathrop.

2. Sophomore Composition. Yr.; 2 cr. Open to students who have passed English 1b or 12b. Mr. Harkness and staff.

3a. Argumentation. I; 3 cr. Lectures, textbook, practice exercises. Prerequisite: English 1b or 12b. Mr. O'Neill.

3b. Argumentative Addresses. II; 2 cr. Prerequisite: 3a. (Omitted 1921-22.) Mr. O'Neill.

4. Commercial Correspondence. I or II; 2 cr. Taken for credit only by students in the commerce course, by seniors preparing to teach the subject, and by students who have taken one semester of English 2. Mr. Gardner, Mr. Fisher, Mr. Hinman, and staff.

11. Advanced Commercial Composition. I; 2 cr. Prerequisite: good work in English 4. Taken for credit only as part of a technical course. (Omitted 1921-22.) Mr. Gardner.

5. Junior Composition. Yr.; 2 cr. Prerequisite: a grade of 85 or over in English 1b or 12b, or credit in English 2. Mr. Batchelor, Mr. Manchester.

6. Advanced Composition. Yr.; 3 cr. Elective for juniors and seniors. Mr. Dodge.

9. Technical Composition. II; 3 cr. Elective for juniors and seniors in Engineering who have had English 1b. (Omitted 1921-22.)

107. Narration. Yr.; 2 cr. Open to juniors and seniors who have taken one composition course in advance of English 1b or 12b. Mr. Cairns.

108. Dramatic Writing. II; 2 cr. As a prerequisite to admission, candidates are expected to submit an acceptable scenario. (Omitted 1921-22.) Mr. Pyre.

For Graduates

217. The Teaching of Freshman English. II; 2 cr. (Omitted 1921-22.)

ENGLISH LANGUAGE AND LITERATURE

The insertion of CL after a course number indicates that the course belongs also to Comparative Literature.

For Undergraduates

7CL. Contemporary Drama. Yr.; 2 cr. Does not count toward the major in English. Mr. Pyre.

8CL. Contemporary Novel. Yr.; 2 cr. Does not count toward the major in English. Mr. Lathrop.

25. English Words. I; 3 cr. Open to sophomores, juniors, and seniors. Mr. Hubbard.

30. General Survey. Yr.; 3 cr. Either this course or course 33 must be taken as a prerequisite for all advanced courses in English literature. Sophomores who contemplate taking a major in English are advised to elect course 30. A student who has credit in course 33 may not elect course 30. Mr. Pyre and staff.

31. Chaucer. I; 3 cr. Mr. Beatty.

33. Introduction to English Literature. Yr.; 2 cr. This course is provided especially for sophomores who are candidates for the general B. A. degree (See above p. 175). The requirement in English literature for this degree may be met, however, either by 4 credits in this course or by 6 credits in course 30. Either course 30 or course 33 must be taken as a prerequisite for all advanced courses in English literature. A student who has credit in course 30 may not elect course 33. Mr. Pyre and staff.

34. The Romantic Movement. I; 3 cr. Mr. Pyre, Mr. Bierstadt.

35. The Victorian Era. II; 3 cr. A continuation of 34. Mr. Pyre, Mr. Bierstadt.

36. Elizabethan Drama. Yr.; 3 cr. Mr. Pyre.

38. Prose Style. Yr.; 2 cr. (Omitted 1921-22.) Mr. Taylor.

39. The Novel. Yr.; 2 cr. (Omitted 1921-22.) Mr. Lathrop.

40. American Literature. Yr.; 2 cr. The course should be preceded or accompanied by English 30. Mr. Cairns, Mr. Harkness.

48. The Literary Aspects of the English Bible. I; 3 cr. Mr. Lathrop.

54. Carlyle and Ruskin. I; 3 cr. Mr. Roe.

55. Emerson and Arnold. II; 3 cr. Mr. Roe.

90a. The Teaching of English. I; 2 cr. Mr. S. A. Leonard.

90b. The Teaching of English. II; 2 cr. Mr. S. A. Leonard.

Observation of teaching is required in each course. 90a and 90b are required of all candidates for the teachers certificate (English major); an advanced composition course (to be taken in the sophomore and junior year) and 90a are required of all candidates for the minor teachers certificate in English.

For Undergraduates and Graduates

102CL. Renaissance Epic. II; 2 cr. Does not count toward the major in English. (Omitted 1921-22.) Mr. Dodge.

120a. Anglo-Saxon. I; 3 cr. Mr. W. E. Leonard.

120b. Middle English. II; 3 cr. A continuation of course 120a. Mr. W. E. Leonard.

121. Anglo-Saxon Poetry. I; 3 cr. (Omitted 1921-22.)

122. Beowulf. II; 3 cr. Open to seniors. Mr. Hubbard.

123. Modern English Grammar. I or II; 3 cr. Mr. Hubbard.

137. Shakespere. Yr.; 3 cr. Mr. Young, Mr. Roberts.

141. Tennyson. II; 2 cr. Mr. Beatty.

142. Versification. II; 2 cr. (Omitted 1921-22.) Mr. Pyre.

143. Familiar Essay. Yr.; 2 cr. Mr. Taylor.

144. Wordsworth. II; 3 cr. Mr. Beatty.

145. Browning. I; 2 cr. Mr. Hubbard.

146CL. The Ballad. I; 2 cr. Counts toward the major in English. Mr. Beatty.

149a. Emerson. I; 2 cr. (Omitted 1921-22.) Mr. Cairns.

149b. Whitman. II; 2 cr. (Omitted 1921-22.) Mr. Cairns.

153. Philosophy in the English Poets. Yr.; 2 cr. Mr. W. E. Leonard.

156. French and English Romantic Poets. II; 2 cr. Mr. Cestre.

157. Milton. II; 2 cr. Mr. Dodge.

158. The Age of Dryden. II; 3 cr. (Omitted 1921-22.) Mr. Lathrop.

159. The Age of Pope. II; 3 cr. Mr. Lathrop.

160. The Sixteenth Century. I; 3 cr. Mr. Dodge.

161. Rhetoric. II; 2 or 3 cr. (Omitted 1921-22.) Mr. Lathrop.

166. Literary Criticism. II; 3 cr. Mr. Manchester.

For Graduates

224. English Philology Seminary. Yr.; 2 cr. Subject for 1921-22, Anglo-Saxon Poetry. Mr. Hubbard.

231. Introductory Seminary in English Literature. Yr.; 2 cr. Subject for 1921-22, Browning. Mr. Hubbard.

232. Introductory Seminary in English Literature. Yr.; 2 cr. (Omitted 1921-22.)

244. Seminary in English Literature. Yr.; 2 cr. Subject for 1921-22, Chaucer. Mr. Young.

247. Seminary in American Literature. Yr.; 2 cr. Subject for 1921-22, Emerson I, Whitman II. Mr. Cairns.

FINE ARTS

PROFESSOR SHOWERMAN.

122. The Fine Arts. Yr.; 3 cr. Illustrated general survey of architecture, sculpture, and painting from classical antiquity to the present time.

FORESTRY

LECTURER TIEMANN.

For Undergraduates

1. Forestry and Utilization of Wood. I; 2 cr. See Forest Products Laboratory.

GEOLOGY AND GEOGRAPHY

PROFESSORS LEITH (CHAIRMAN), MEAD, WHITBECK, WINCHELL; ASSOCIATE PROFESSORS FINCH, TWENHOFEL; ASSISTANT PROFESSORS LOBECK, STEIDTMANN; INSTRUCTORS CORBETT, FREY, LOFT; CURATOR THWAITES.

The work of the department, as its name indicates, is divided into two main groups of studies, Geology and Geography. In each of these main groups courses are offered for general education as well as those leading toward professional work in these fields.

The Geology Group. For students wishing a survey of the field for general educational purposes, courses 1, 2, 6, 7, 8, 10 are

suggested. Course 1, General Geology, is the principal introductory course for students in geology. Students whose preparation does not include either physics or chemistry may enter course 1 by special arrangement with the instructor. Students entering introductory course 6 in mineralogy should have a general knowledge of chemistry at least equivalent to that derived from a high school course.

Short courses in geology and mineralogy (2, 7, and 8) are offered without prerequisites, except for elementary knowledge of chemistry, to students not intending to take further work in these subjects. Students who take these courses will be allowed to enter advanced courses only by special arrangement.

Students wishing to prepare for professional work in geology will take additional special courses after consultation with the instructor. Graduates of the department have gone into several main fields of work: Education and research; geological surveys, national and state; economic geology, including such aspects as mineral deposits, engineering applications, valuation and taxation, and conservation. In all these fields the demand exceeds the supply. This is especially true in the economic field where the opportunities are beyond the capacity of the department to fill.

The Geography Group. For this group the introductory courses are 4 and 5C; the latter is required of all students in the Course in Commerce. Courses 4 or 5C should be followed by one or more of courses 101, 102, 103, 104, and these by such courses as 105, 106, 107, 109, 127, 130, and 131. Course 106 (Agricultural Geography) is especially, but not wholly, designed for students in the College of Agriculture and course 105 (Overseas Commerce) for students in the Course in Commerce. All students who major in geography should take course 90 (Teaching of High School Geography) and should take selected courses in meteorology, history, economics and political science. Opportunities for graduates who have majored in geography are principally in the field of teaching. However, geographical training is desirable for many positions in the government service, particularly in the department of commerce and in the consular service. In the commercial field, persons of geographic training supplementary to commercial training or experience, are in growing demand.

GENERAL GEOLOGY

For Undergraduates

1. General Geology. Yr.; 5 cr. Prerequisites: see above. Mr. Twenhofel.

2. Short Course in Geology. II; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Steidtmann.

9. Engineering Geology. Yr.; 3 cr. A course in elementary geology for students in engineering; first semester required of juniors in civil engineering; both semesters required of students in mining engineering. Mr. Mead.

11. Elementary Course in Mapping. II; 3 cr. Application of plane table and other instruments to geologic and topographic mapping. Mr. Thwaites.

For Undergraduates and Graduates

122. Research. The amount of time alloted is subject to special arrangement.

125. Field Work for Advanced Students. II; 3 cr. One to three weeks in May are spent in geologic mapping of some selected area usually in iron or copper districts of Lake Superior or zinc district of Wisconsin. Mr. Leith, Mr. Mead. Special summer field courses are offered for credit from time to time by members of the Department.

For elementary field courses see 1, 11, and 131. Field trips are made also in connection with courses 4, 109, 110, 111, 112, 118 and 133, and 139.

134. Regional Geology. I; 3 cr. A study of world geology. (Given 1921-22 and in alternate years.) Mr. Twenhofel.

135. History of the Development of Geology. I; 1 cr. Prerequisite: Geology 1 or Geography 4. (Given 1921-22 and in alternate years.) Mr. Twenhofel.

PHYSICAL GEOLOGY

For Undergraduates and Graduates

113. Economic Aspects of Geology. I; 3 cr.; II; (a) Lect., 3 cr.; (b) Lab., 2 cr. (Given 1921-22 and alternate years.) Prerequisites: Chemistry 1, Geology 6 or 7, and Geology 1, or Geography 4. Mr. Leith, Mr. Mead.

114. Structural Geology. I; (a) Lectures, 2 cr. Mr. Leith; (b) Map interpretation and laboratory work, 3 cr. Mr. Mead.

The two parts are closely related but may be taken independently.

115. Metamorphic Geology. Yr.; 3 cr. (Given 1922-23 and in alternate years.) Mr. Leith, Mr. Mead. Course 141 should be taken with this.

117. Principles of Pre-Cambrian Geology. II; 2 cr. (Given 1922-23 and alternate years.) Mr. Leith.

118. Lake Superior Geology. II; 2 cr. At the close of the course in the spring an excursion is made to points of geologic and economic interest in the Lake Superior country. (Given 1921-22 and in alternate years.) Mr. Leith, Mr. Mead.

123. Oil Geology. II; 2 cr. Prerequisites: Geology 1 and 114. (Given 1921-22 and in alternate years.) Mr. Twenhofel.

128. Lake Superior Iron Ore Exploration. II; 2 cr. Prerequisites: Descriptive Geometry and course 114, 117 or 118. (Given 1922-23 and in alternate years.) Mr. Mead.

133. Sedimentation. II; 3 cr. Prerequisites: Geology 1, 6, and 114. Mr. Twenhofel.

141. Metamorphic Laboratory. Yr.; 2 cr. Quantitative study of metamorphism, to be taken with course 115. (Given 1922-23 and alternate years.) Mr. Mead.

STRATIGRAPHY AND PALEONTOLOGY

For Undergraduates and Graduates

112. Historical Geology and Stratigraphy. II; 5 cr. (Given 1922-23 and in alternate years.) Prerequisites: Geology 1 and 121. Mr. Twenhofel. See also course 134, Regional Geology.

121. Paleontology. I; 5 cr. Prerequisite: Geology 1 or Zoology 1. (Given in 1922-23 and in alternate years.) Mr. Twenhofel.

MINERALOGY AND PETROLOGY

For Undergraduates

6. General Mineralogy. Yr.; 5 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Winchell and Mr. Steidtmann.

7. Short Course in Mineralogy. II; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Steidtmann.

8. Short Course in Petrology. I; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Steidtmann.

For Undergraduates and Graduates

108. Petrology. Yr.; 5 cr. Prerequisite: course 6 or 7. Mr. Winchell.

119. Petrology of Lake Superior Rocks. Yr.; 3 cr. Prerequisite: course 108. (Offered 1922-23 and in alternate years.) Mr. Winchell.

120. Advanced Mineralogy. Yr.; 2 to 4 cr. Prerequisite: course 6. Mr. Winchell.

124. Economic Mineralogy. II; 2 cr. (Given 1922-3 and alternate years.) Mr. Winchell.

129. Petrogeny. Yr.; 2 or 3 cr. Prerequisite: course 108. (Given 1921-22 and in alternate years.) Mr. Winchell.

138. Agricultural Mineralogy. II; 1 cr. Prerequisite: Chemistry 1 or equivalent. (Given 1921-22 and in alternate years.) Mr. Winchell.

GLACIAL GEOLOGY

For Undergraduates and Graduates

143. Glacial Geology. II; 3 cr. Prerequisites: Geology 1, 2, or 9 or Geography 4. Mr. Thwaites.

PHYSIOGRAPHY AND GEOGRAPHY

For Undergraduates

3. Laboratory Course in Geography. Yr.; 2 cr. Part of Geology 4. Miss Loft.

4. Physiography and Geography. Yr.; 5 cr. No prerequisites. Mr. Whitbeck and staff.

5C. Geography for Commerce Students. Yr.; 3 cr. Mr. Finch and staff.

12. Principles of Geography. II; 3 cr. A study of certain aspects of human progress as influenced by geographic environment. Designed for students of the social sciences. No prerequisites; not open to freshmen. Mr. Whitbeck.

90. The Teaching of High School Geography. II; 2 cr. Prerequisite: Geography 4 or equivalent. (Not given in 1921-22.) Miss Loft.

For Undergraduates and Graduates

101. Geography of Europe. I; 3 cr. Mr. Lobeck.

102. Geography of South America. II; 3 cr. Mr. Whitbeck.

103. Geography of North America. I; 2 cr. (Given in 1922-23 and in alternate years.) Miss Loft.

104. Geography of Wisconsin. II; 2 cr. (Not given in 1921-22.)

105. Overseas Commerce. I; 3 cr. Prerequisite: Geography 4 or 5C. Mr. Frey.

106. Agricultural Geography. II; 3 cr. Mr. Finch.

107. Influence of Geography on American History. I; 3 cr. (Omitted in 1921-22.)

109. Advanced Physiography. II; 3 cr. Prerequisite: Geology 1 or 9, Geography 4 or 5C. Mr. Lobeck.

122. Research. The amount of time is subject to special arrangement.

126. Maps for Geographic Teaching. I; 1 cr. (Given in 1922-23.) Mr. Finch.

127. Advanced Economic Geography. I; 3 cr. For intending teachers and advanced students. Prerequisite: Geography 4 or 5C. (Not given 1921-22.)

130. Physiography of the United States. Yr.; 3 or 5 cr. Prerequisite: Geology 1, 2, or 9 or Geography 4 or 5C. Mr. Lobeck.

131. Summer Field Course in Physiography and Geology. 4 to 6 cr. During August, 4 weeks. Limited to 20 students. Not given for less than 12 students. Cost, including living expenses and tuition, about $85.

132. Geographical Seminary. Yr.; 2 cr. Mr. Whitbeck and Mr. Finch.

137. The Drawing of Block Diagrams. II; 2 cr. Mr. Lobeck.

139. Rocky Mountain Physiography. II; 4 cr. Field course June 10-July 5, 1922 to Colorado Rockies, Yellowstone and Glacier Parks. Credit given only to those who have had suitable preliminary training in geology or physiography, such as Geology 1, 2, or 9, or Geography 4 or 5C. Cost, including tuition, about $300. Mr. Lobeck.

GERMAN

PROFESSORS HOHLFELD* (CHAIRMAN), VOSS; ASSOCIATE PROFESSORS GOODNIGHT, MORGAN (SECRETARY), ROEDDER; ASSISTANT PROFESSORS BRUNS, ERNST, STERLING; INSTRUCTOR BAUSCH; ASSISTANT MEYER; TEACHING FELLOWS BUCK, HATHAWAY, HINZ, OWEN, RICHARDS.

*On leave of absence, second semester, 1921-22.

The courses in German are organized as follows:

I. The elementary courses represent the work normally done in the first and second year, and are graded to meet the needs of high school graduates with different degrees of preparation. Freshmen with four years of high school German are not allowed to enter any of these elementary courses. They are eligible to the advanced practice courses and the literary courses in Group A, and can thus elect two, three, or four hour programs in German. Students who possess a thorough, practical knowledge of German considerably in advance of what their high school work indicates, should present themselves for an informal examination with a view to being assigned to more advanced classes. Credit for the omitted lower work will, however, be granted only in exceptional cases, regulated by special rules of the Faculty, and never without a formal examination.

II. The advanced practice courses are intended for specific practical ends, definitely stated in each case. None of these courses is required of students wishing to study German chiefly for its literature.

III. The literary courses are of very different degrees of advancement, those from 241 to 248 not being open to undergraduate students. The less advanced courses are divided into two groups designated A and B. Ordinarily students may not enter group B unless they have taken at least one course in group A, or its equivalent. Generally, about twelve credits in these two groups combined will be adequate preparation for the more advanced work in literature as well as for the more elementary courses in philology. Students intending to specialize in German literature are advised to do related work in English literature, in medieval and modern history, and in philosophy. They should also pursue, to a fair degree of advancement, the study of at least one other foreign language and literature, ancient or modern. Their attention is also called to the courses mentioned under Comparative Literature.

IV. The courses from 150 to 155, and from 263 to 270, are devoted to work in German philology. While most of these courses are intended for graduate students working for a higher degree in German, some of them are well suited to the needs of advanced undergraduates. This is especially true of courses 150, 151, 152, all of which are so conducted as to be of direct benefit to properly qualified seniors.

Major in German*

Students electing German as their major study are required to offer, in addition to the thesis, a total of at least twenty-four credits in advance of course 1b, or an equivalent. Not less than four of these credits should represent class work in advance of course 100. Candidates preparing to teach German as their major subject are required to take the following courses: 10 or 112, 90a and 90b, 130 or 131, 150 and 151.

As to the maximum number of credits which students may elect in German, the following rules apply. Students beginning their university work in German 1a, 1b or 2a may take up to forty-six credits, those entering 2b up to forty-three credits, those entering higher classes may not exceed forty credits.

Minor in German*

Students preparing to teach, with German as their minor, will be required to complete courses 10 or 112, 90a, and at least four credits in Group B, or 130 or 131; *i. e.*, at least 14 credits in advance of German 2b.

ELEMENTARY COURSES

For Undergraduates

Mr. Morgan is in general charge of these courses.

1a. Beginners' German. I or II; 4 cr.

1b. Second Semester German. I or II; 4 cr. Prerequisite: course 1a, or one year of high school German.

2a. Third Semester German. I or II; 4 cr. Prerequisite: course 1b, or two years of high school German.

2b. Fourth Semester German. I or II; 4 cr. Prerequisite: course 2a, or three years of high school German. Students completing course 2b in the first semester should elect course 3 in the second semester.

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*Students who are preparing to teach German as their major or minor subject and have done a considerable amount of work elsewhere or have had successful teaching experience, may be excused, by action of the department, from some of the required work. Such excuse will generally be granted only on the basis of an examination, and in no case will students be recommended by the department unless they have taken at least four credits of work in the department.

ADVANCED PRACTICE COURSES

For Undergraduates

3Sc. Scientific German. Yr.; 2 cr. For students specializing in science. Prerequisite: course 2b or equivalent. Miss Sterling.

3C. Commercial German. Yr.; 2 cr. For students in the Course in Commerce. Prerequisite: course 2b or equivalent. (Omitted 1921-22.) Mr. Roedder.

10. Composition and Conversation. Yr.; 2 cr. Prerequisite: four credits in advance of course 2b. Mr. Roedder.

11. Journalistic German. Yr.; 1 cr. (2 hrs.) Prerequisite: course 2b or equivalent. (Omitted 1921-22.)

16. Prose Reading (for graduates). Yr.; no credit. (2 hrs.) Practice course. Mr. Morgan.

40. Elementary Conversation. Yr.; 1 cr. (2 hrs.) Prerequisite: course 2b or equivalent. Mr. Voss.

41. Intermediate Conversation. Yr.; 1 cr. (2 hrs.) Prerequisite: four credits in advance of course 2b, or sufficient ability in speaking German. Mr. Hohlfeld.

90a. The Teaching of German. I; 2 cr. For seniors and graduates. Mr. Morgan.

90b. The Teaching of German. II; 2 cr. Phonetics. For seniors and graduates. Mr. Morgan.

For Undergraduates and Graduates

112. Advanced Practice in Speaking and Writing German. Yr.; 2 cr. For advanced students specializing in German. More advanced than course 10, though ordinarily students should take only one of the two courses. (Omitted 1921-22.) Mr. Bruns.

LECTURE COURSES

29. Survey of German Painting and Sculpture of the Nineteenth Century. I; 1 or 2 cr. (2 hrs.) Miss Sterling.

75. German Classics in English Translation. Yr.; 2 cr. Mr. Hohlfeld.

Courses 29, 30, and 75 are given in English and do not require a knowledge of German. They do not count toward the minimum requirement for a major, nor toward the language requirement, unless taken for two credits, with outside reading in German. They are not open to freshmen.

GERMAN LITERATURE

For Undergraduates

GROUP A

These courses are primarily intended for students who have had course 2b, or its equivalent. Students having had more than four credits in advance of course 2b will be required to do additional work to receive full credit.

3. Selected Masterpieces. II; 4 cr. Prerequisite: course 2b, or four years of high school German. Mr. Bruns.

15. Classical and Modern Writers. Yr.; 3 cr. Not open to students who have had course 3. Mr. Roedder.

17. Modern German Drama and Novel. Yr.; 3 cr. A rapid reading course. (Omitted 1921-22.)

20. Schiller. Yr.; 2 cr. Miss Sterling.

To make suitable four or five-hour courses, 15, 17, and 20 should be combined with 40 or 41.

Course 20 is given in English, 3, 15, and 17 partly in German.

GROUP B

These courses are open to students who have had at least four credits in advance of course 2b.

Not more than 12 credits may regularly be taken in this group for full credit.

Course 21 is given in English, the others largely in German.

21. Wagner's Music Dramas. I; 3 cr. **German Poetry.** II; 3 cr. (Omitted 1920-21.) Miss Sterling.

22. Hebbel. I; 3 cr. **Heine.** II; 3 cr. Mr. Bruns.

23. Goethe. Yr; 2 cr. (Omitted 1921-22) Mr. Voss.

25. Goethe's Prose. Yr.; 2 cr. (Omitted 1921-22.) Mr. Morgan.

26. Modern Fiction. Yr.; 3 cr. Keller, Storm, Meyer, Raabe. (Omitted 1921-22.) Mr. Goodnight.

27. Modern German Drama. Yr.; 2 cr. (Omitted 1921-22.) Mr. Bruns.

100. Thesis Course. Yr.; 2 cr. (Omitted 1921-22.)

For Undergraduates and Graduates

130. Goethe's Faust. Yr.; 2 or 3 cr. (3 hrs.) Alternates with course 131. (Given 1920-21.) Mr. Hohlfeld.

131. Survey of German Literature. Yr.; 2 or 3 cr. (3 hrs.) Alternates with course 130. (Given 1921-22.) Mr. Hohlfeld.

134. Lyric Poetry of the Nineteenth Century. Yr.; 2 cr. Alternates with course 149. Mr. Bruns.

135. The Novel of the Nineteenth Century. II; 2 cr. Mr. Morgan.

136. Popular German Literature. Yr.; 2 cr. Alternates with course 137. (Omitted 1921-22.) Mr. Roedder.

137. Schiller. Yr.; 2 cr. Alternates with course 136. (Omitted 1921-22.) Mr. Roedder.

141CL. Principles and Practice of Translating. II; 1 or 2 cr. For students with advanced training in German, French, or Italian. (Omitted 1921-22.) Mr. Morgan.

149. The Romantic Movement in Germany. Yr.; 2 cr. Alternates with course 134. (Omitted 1921-22.) Mr. Bruns.

Courses 135 and 141CL are given in English, the others in German.

For Graduates

247. Pro-seminary in German Literature. Yr.; 2 or 3 cr. Mr. Hohlfeld.

248. Seminary in German Literature. Yr.; 2 cr. Mr. Hohlfeld.

These courses are given in German.

GERMAN PHILOLOGY

Mr. Voss is in general charge of courses 150-155, 263-270.

For Undergraduates and Graduates

150. History of the German Language. I; 2 cr. Mr. Voss.

151. Elementary Middle High German. II; 2 cr. Mr. Voss.

152. Advanced Middle High German. Yr.; 2 cr. Mr. Voss. (Omitted 1921-22.)

154. Gothic. II; 2 cr. (Given in 1921-22.) Mr. Roedder.

155. Old High German. I; 2 cr. (Omitted 1921-22.) Mr. Roedder.

159CL. Germanic Mythology and Heroic Legends. II; 2 cr. (Omitted 1921-22.) Mr. Roedder.

For phonetics see above, course 90b.

Courses 150 and 151 are given partly in German, the others in German.

For Graduates

263. Pre-Germanic Grammar. II; 2 cr. (Omitted 1921-22.) Mr. Roedder.

264. Modern and Middle Low German. Yr.; 1 cr. Alternates with course 265. (Omitted 1921-22.) Mr. Voss.

265. Language and Literature of the Sixteenth Century. Yr.; 1 cr. Alternates with course 264. (Omitted 1921-22.) Mr. Voss.

269. Philological Proseminary. II; 2 cr. (Omitted 1921-22.) Mr. Roedder.

270. Philological Seminary. Yr.; 2 cr. The fields of investigation form a cycle of three years. Mr. Voss.

Courses 263-270 are given in German.

HISTORY

PROFESSORS FISH, PAXSON (CHAIRMAN), ROOT, ROSTOVTZEFF, SELLERY; ASSOCIATE PROFESSORS BYRNE,* CHASE; ASSISTANT PROFESSORS EDWARDS, KNAPLUND, STEPHENSON, YEWDALE;† INSTRUCTOR SELLERS; ASSISTANTS BEYER, CLINE, DEUTSCH, DRAPER, HALL, JOHANNESEN, LAUB,‡ LEMM-MARUGG,‡ LEYLAND, LIEBIG,‡ LINDEGREN,‡ NETTELS, PHILLIPS, RIEGEL, RYDJORD,‡ P. S. SMITH, WILLIAMSON.

PRESIDENT ADAMS FELLOW, MR. ANDRESSOHN.

UNIVERSITY FELLOWS, MR. NASH, MR. P. T. SMITH.

SCHOLARS, MISS CROWE, MISS MYKEL.

The courses in history are divided into three groups:

A. Introductory courses 1, 2, 4, 5, 6, and 10 are for undergraduates, and may not be counted toward advanced degrees in history. Courses 1, 5, 6, and 10 are the courses open to freshmen. Students may take only one of these freshmen courses for full credit (three credits each semester) since each contains introductory training for which credit ought not to be given twice; but if they have had or are taking one of these courses for full credit, another may be taken without the supplementary reading and topical report for two credits each semester. Students not registered in the College of Letters and Science may take any of the introductory courses for two credits each semester. Students are advised not to neglect advanced work in the attempt to cover all of the introductory courses.

B. Advanced courses 100 to 166 continue, in the direction of greater specialization, the work begun in the introductory

*On leave of absence second semester.
†Died November 25, 1921.
‡Second semester appointment.

courses. They may be elected by students who have the necessary preparation.

Courses 90 and 91 are primarily for students who expect to teach history in a secondary school. Seniors completing a major or a teaching minor in history will be regularly admitted to these courses. Other seniors and graduates will be admitted only by special permission.

C. Courses 252 to 262 are open only to graduate students.

The History Requirement for Graduation

When history is offered as one of the required studies in the general course leading to the degree of bachelor of arts (see page 132), the requirement must be satisfied by a continuous three-credit course extending through two semesters.

The Major in History

Thirty credits in history (including, for upper group students, a thesis, four credits), are required for an undergraduate major in history and must include: (a) One introductory course in European and one in American history, and (b) At least twelve credits in advanced courses.

The Master's Degree in History

Candidates for the master's degree in history who have completed an undergraduate major in history in this University, or its equivalent elsewhere, are required, in their year of work for the degree, to do one-half their work (*e. g.*, a three hour lecture course and a seminary, both throughout the year), in advanced history, and to write an acceptable thesis. They are permitted to complete their programs, from advanced courses in history or related subjects. Other candidates for the master's degree in history will be required to concentrate their work more fully, or exclusively, upon history. Every candidate for this degree is expected to have had, as undergraduate or graduate, at least one advanced course in European and one in American history.

The thesis requirement is waived in the case of a student holding undergraduate Thesis Honors in the University of Wisconsin, and may be waived by vote of the Department in cases of students recommended to continue for the doctor's degree. Candi-

dates will be admitted to the oral examination for the master's degree only in case the grades in all courses taken the previous semester (or summer session), were *good* or above. . .

The Doctor's Degree in History

Candidates for the degree of doctor of philosophy must be prepared by undergraduate studies to undertake advanced work. If they are notably deficient in their preparation (taking a minimum undergraduate major in history as a basis for judgment), the deficiency must be made up during the first graduate year, without counting toward the higher degree.

The award of the doctor's degree is based upon the preparation of a thesis and examination in seven fields, two of which must lie outside the department.

The thesis must be based upon individual research, and must be presented in good literary and technical form for the approval of the reading committee, at least thirty days before the candidate is admitted to his final examination.

Two examinations are required for the doctor's degree. The preliminary examination must be taken at least seven months in advance of the date at which the degree is expected to be awarded. It is designed to demonstrate the extent and soundness of the candidate's preparation over all of the seven fields described below, and to serve as a basis for his further studies. Admission to the candidacy for the degree will be based upon this examination.

At the preliminary examination, the candidate may, with the approval of the professors concerned, indicate fields included within his major and minor subjects, but not including the thesis or the field in which it falls, and may take a final examination in these fields.

The final examination will include the thesis and the field in which it falls and all of the other fields presented by the candidate that have not been eliminated at the preliminary examination.

The seven fields upon which the candidate will be examined are as follows:

1. Historical Method and Historiography, including a knowledge of the lives and writings of the great historians, and required of all candidates.

2-5. Four fields comprising the major subject, from the following list: Ancient History, Medieval Europe, Modern Europe, England, American Colonies, United States.

6-7. Two fields comprising the minor subject, ordinarily to be selected from those offered in economics, law, philosophy, or political science; but fields in other departments may be selected with the approval of the department.

For Undergraduates

INTRODUCTORY COURSES OPEN TO FRESHMEN

Freshmen are permitted to choose two of the introductory courses 1, 5 or 6, and 10, for five credits, and are not required to do the special training work (including supplementary reading and topical report) in the second of the two courses.

1. Medieval History. Yr.; 3 or 2 cr. Mr. Byrne, Mr. Sellery, Mr. Chase and staff.

5. English History. Yr.; 3 or 2 cr. Students who have had both semesters of History 1 may enter this course at the beginning of the second semester. Not open to students in the Course in Commerce. Mr. Root, Mr. Sellers and staff.

5a. First Semester English History. II; 3 or 2 cr. Identical with the first semester of History 5. Mr. Sellers.

6. English History. Yr.; 3 cr. For students in the Course in Commerce only. Mr. Knaplund, Mr. Stephenson and staff.

10. Ancient History. Yr.; 3 or 2 cr. Mr. Rostovtzeff and staff.

INTRODUCTORY COURSES NOT OPEN TO FRESHMEN

2. Modern European History. Yr.; 3 cr. May be elected by semesters; no prerequisites. Mr. Yewdale, Mr. Stephenson.

4. History of the United States. Yr.; 3 cr. May be elected by semesters; no prerequisites. Seniors may elect for two or three credits. Mr. Fish.

For Undergraduates and Graduates

90. The Teaching of History in the High School. I or II; 2 cr. Required of seniors for the teachers major; elective for the teachers minor. Mr. Chase.

91. Supplementary Reading for Teachers of History. II; 2 cr. Required for the teachers minor; elective for the teachers major. Mr. Chase.

ANCIENT AND MEDIEVAL HISTORY

History of Ancient and Medieval Education. I; 3 cr. (Given as Education 102—does not count toward history major). Mr. Chase.

123. The Roman Empire. II; 2 cr. Mr. Rostovtzeff.

127. Hellenistic-Roman Civilization. II; 2 cr. (Omitted 1921-22.) Mr. Rostovtzeff.

131. Medieval Civilization. I; 3 cr. (Omitted 1921-22.) Mr. Sellery.

133. Medieval Commerce. I; 2 cr. (Omitted 1921-22.) Mr. Byrne.

134. The Renaissance. I; 3 cr. Mr. Sellery.

141. English Constitutional History. Yr.; 3 cr. (Omitted second semester 1921-22) Mr. Byrne.

MODERN HISTORY

History of Modern Education. II; 3 cr. (Given as Education 101—does not count toward history major.) Mr. Chase.

136. History of France, 1643-1789. Yr.; 2 cr. Mr. Stephenson.

137. Europe during the World War. I; 2 cr. Mr. Yewdale, Mr. Knaplund.

138. The French Revolution and the Napoleonic Empire, 1789-1815. II; 2 cr. (Omitted 1921-22.) Mr. Yewdale.

139. Nineteenth Century Europe. Yr.; 2 cr. May be elected by semesters. Mr. Yewdale, Mr. Knaplund.

140. The Reformation. II; 3 cr. (Omitted 1921-22.) Mr. Sellery.

143. The British Empire since 1815. Yr.; 3 cr. (Omitted 1921-22.) Mr. Root.

144. Development of Modern Russia. Yr.; 2 cr. (Omitted 1921-22.) Mr. Rostovtzeff.

146. History of Central Europe. Yr.; 2 cr. (Omitted 1921-22.) Mr. Byrne.

147. Modern Britain, 1815-1921. Yr.; 3 cr. Mr. Knaplund.

166. Pro-seminary in Modern European History. Yr.; 2 cr. Open to graduates and to seniors with adequate preparation. (Omitted 1921-22.) Mr. Yewdale.

AMERICAN HISTORY

History of American Education. I; 3 cr. (Given as Education 103—does not count toward history major.) (Omitted 1920-21.) Mr. Chase.

111. History of the West, 1763-1890. Yr.; 3 cr. May be elected by semesters. Mr. Paxson.

112. Representative Americans. I; 3 cr. (Omitted 1921-22.) Mr. Fish.

113. History of New England. II; 2 cr. (Omitted 1921-22.) Mr. Fish.

115. Diplomatic History of the United States. Yr.; 2 cr. (Omitted 1921-22.) Mr. Fish.

116. English Colonies in America, 1583-1783. Yr.; 3 cr. May be elected by semesters. Mr. Root.

117. Constitutional History of the United States, 1600-1920. Yr.; 3 cr. May be elected by semesters. Mr. Sellers.

118. Civil War and Reconstruction. I; 3 cr. Mr. Fish

119. French and Spanish Colonies in America, 1492-1823. Yr.; 2 cr. (Omitted 1921-22.) Mr. Root.

120. American Foreign Policy, 1783-1919. II; 3 cr. Mr. Fish.

121. Studies in Colonial History. Yr.; 2 cr. (Omitted 1921-22.) Mr. Root.

124. Recent History of the United States, 1873-1921. Yr.; 2 cr. May be elected by semesters. Mr. Paxson.

128. The United States in the Great War (1917-19.) Yr.; 3 cr. (Omitted 1921-22.) Mr. Paxson.

For Graduates

252. Historical Method. II; 2 cr. Graduate students in their first year are expected to take this course. (Omitted 1921-22.) Mr. Byrne, Mr. Fish, Mr. Rostovtzeff.

254. Seminary in Ancient History. Yr.; 2 cr. A reading knowledge of Greek and Latin is required. Mr. Rostovtzeff.

255. Seminary in Latin and Ancient History. Yr.; 2 cr. See Latin 233. (Omitted 1921-22.) Mr. Slaughter, Mr. Rostovtzeff.

256. Seminary in Medieval History. Yr.; 2 cr. A knowledge of Latin, French, and German is required. (Omitted 1921-22.) Mr. Sellery.

257. Seminary in Medieval History. Yr.; 2 cr. A reading knowledge of Latin, French and German is required. (Omitted second semester 1921-22.) Mr. Byrne.

259. Seminary in History of the British Empire. Yr.; 2 cr. Mr. Root.

261. Seminary in American History. Yr.; 2 cr. Mr. Fish.

262. Seminary in American History. Yr.; 2 cr. Mr. Paxson.

INDO-EUROPEAN COMPARATIVE PHILOLOGY

ASSOCIATE PROFESSORS LAIRD (CHAIRMAN), ROEDDER.

For Undergraduates and Graduates

101. Introduction to Comparative Philology. I; 2 cr. Mr. Laird.

103. Elementary Sanskrit. Yr.; 3 cr. Mr. Laird.

104. Gothic. I; 2 cr. Mr. Roedder.

220. Greek Grammar. I; 3 cr. Sounds and forms. Mr. Laird.

225. Latin Grammar. I; 3 cr. Sounds and forms. (Given in 1922-23.) Mr. Laird.

230. Advanced Sanskrit. Yr.; 1 cr. Mr. Laird.

INDUSTRIAL EDUCATION AND APPLIED ARTS

PROFESSOR GRIFFITH (CHAIRMAN); ASSOCIATE PROFESSORS ORTH, VARNUM; ASSISTANT PROFESSOR DABNEY; INSTRUCTORS COX, COLT, HUGHES, WILSON; ASSISTANTS ELY, KEHL, WARNER.

Courses 1-100 are open to undergraduates and carry no graduate credit. Courses 101-199 are open to both graduates and undergraduates. Courses 200-299 are open to graduates only.

I. MANUAL ARTS

For Undergraduates

1. Elements of Mechanical Drawing. I or II; 3 cr. Mr. Orth and staff.

2. Elements of Mechanical Drawing. I or II; 3 cr. Prerequisite: course 1. Mr. Orth and staff.

***4. Elementary Bench Woodwork.** I; 3 cr. Mr. Cox.

5. Furniture and Cabinet Design and Construction. II; 3 cr. Prerequisite: course 4 or equivalent. Mr. Cox.

***6. Wood Turning.** I; 2 cr. Mr. Cox.

***11. Shop Planning and Installation.** I; 2 cr. Prerequisites: courses 1 and 4. Mr. Hughes.

***16. Elementary Pattern Making.** I; 3 cr. Prerequisites: courses 1 and 4. Mr. Cox.

***18. Building Plans and Specifications.** II; 3 cr. Mr. Griffith.

***19. Tools and Materials.** II; 2 cr. Mr. Hughes.

*In the College of Letters and Science this course may not be counted toward graduation except by students in the course in Industrial Education or Applied Arts.

*20. Sheet Metal. I; 3 cr. Mr. Hughes.

*21. Electrical Construction. I; 3 cr. Mr. Hughes.

*22. Auto-Mechanics. II; 3 cr. Mr. Hughes.

*24. Carpentry. II; 3 cr. Mr. Griffith.

*33. Forge and Bench Work. I or II; 1 cr. Mr. Schumann.

*34. Lathe Work in Metals. I or II; 1 cr. Mr. Breckey and staff.

*35. Planing and Milling Metals. I or II; 1 cr. Mr. Breckey and staff.

*36. Tool Making. I or II; 2 cr. Prerequisites: courses 34, 35. Mr. Breckey and staff.

*37. General Machine Shop Work. I or II; 2 cr. Prerequisites: courses 34, 35. Mr. Breckey and staff.

*38. Heat Treatment and Metallography. II; 2 cr. Prerequisite: course 33. Mr. Dabney and staff.

*39. Advanced Pattern Making and Foundry Practice. II; 1 cr. Prerequisites: courses 16 and 43. Mr. Lehman, Mr. Goude.

*43. Elementary Foundry Practice. I or II; 1 cr. Mr. Goude.

II. DRAWING, PAINTING, DESIGN, AND CRAFTS WORK

For Undergraduates

50. Freehand Drawing and Perspective. I; 3 cr. Open to freshmen. Miss Wilson.

51. Freehand Drawing and Anatomy. II; 3 cr. Model fee $1.50. Open to freshmen. Prerequisite: course 50 or equivalent. Miss Wilson.

54. Modeling. I; 3 cr. Miss Wilson.

56. Drawing and Painting (applied). Yr.; 3 cr. Prerequisites: credit in courses 50 and 51. Mr. Colt.

*57. Architectural Rendering. II; 2 cr. Prerequisite: course 50. Mr. Varnum.

62. Design. Yr.; 3 cr. Line, form, and surface enrichment. Prerequisite: credit or registration in courses 1 and 50 or their equivalents. Mr. Varnum.

63. Commercial Art. Yr.; 3 cr. Practical problems based upon the psychology of commercial art. Prerequisite: advanced standing. Mr. Colt.

70. Applied Design in Metal (copper, brass, silver, gold, iron),

*In the College of Letters and Science this course may not be counted toward graduation except by students in the course in Industrial Education or Applied Arts.

Yr.; 3 cr. Desirable prerequisites: registration or credit in course 62 or equivalent training. Mr. Varnum.

71. Applied Design in Clay (pottery). Yr.; 3 cr. Desirable prerequisites: registration or credit in course 62 or equivalent training. Miss Wilson. (Not given 1922-23.)

72. Applied Design in Wood (carving, inlay, finishing). II; 3 cr. Desirable prerequisites: registration or credit in course 62 or equivalent training. Mr. Cox.

*80. Elementary Handwork. II; 2 or 3 cr. For those interested as teachers. Prerequisite: credit in course 90 desirable. Miss Wilson.

For Undergraduates and Graduates

130. Experimental Design. I; 2 cr. Training of imagination with emphasis on stimulating power of originality in design. Application to commercial practice and public school methods. Prerequisites: courses 51 and 62. Mr. Varnum.

131. Advanced Design. II; 2 cr. Original composition in the arts applied to civic, school or home use. Prerequisites: courses 54 or 56, 62, 70 or 71. Mr. Varnum. (Not given 1922-23.)

132. Art Structure. Yr.; 2 or 3 cr. Advanced technical training for vocational or teacher training ends. Prerequisites: courses 54 or 56, 62. Mr. Colt.

III. INDUSTRIAL EDUCATION AND MANAGEMENT

*90. Psychology of Teaching Arts and Industrial Subjects. I; 2 cr. Prerequisite: junior standing. Mr. Griffith.

*100. Senior Thesis Course. Yr.; 2 cr. Mr. Griffith, Mr. Varnum.

For Undergraduates and Graduates

*111. Organization, Administration, and Special Methods. I; 2 cr. General prerequisite: junior standing.

(1.) Woodwork and related technical subjects. Special prerequisite: Courses 1, 4, 5, 19, 90 concurrently. Mr. Cox.

(2.) Metalwork and related technical subjects. Special prerequisite: Courses 1, 7, 8, 9, 11, 90 concurrently. Mr. Hughes.

(3.) Drawing, design, crafts. Special prerequisite: Courses 50, 62, 54, 90 concurrently, and one of the following: Courses 70, 71, or 72. Mr. Varnum.

*In the College of Letters and Science this course may not be counted toward graduation except by students in the course in Industrial Education or Applied Arts.

*112. The Teaching and Supervision of Special Subjects. .II; 2 or 3 cr. Prerequisite: senior standing.

(1.) Woodwork and related technical subjects. Prerequisite: 111-(1). Mr. Cox.

(2.) Metalwork and related technical subjects. Prerequisite: 111-(2). Mr. Hughes.

(3.) Drawing, design, crafts. Prerequisite: 111-(3). Mr. Varnum.

113. Vocational Education and Guidance. II; 2 cr. Prerequisite: junior standing. Mr. Griffith.

116. Tests and Measurements in Art and Industry. II; 2 cr. Prerequisite: junior standing. Mr. Griffith.

*117. Trade Analysis. I; 2 cr. Prerequisite: junior standing. Mr. Griffith.

120. Job Analysis. I; 2 cr. Prerequisite: junior standing. Mr. Griffith.

121. Foremanship and Employe Training. II; 2 cr. Prerequisite: junior standing. Mr. Griffith.

*128. Related Technical Training. I; 2 cr. Prerequisite: junior standing. Mr. Griffith.

*129. The Continuation School. I; 2 cr. Organization and teaching technic of the part-time or continuation school. Prequisite: junior standing. Mr. Griffith.

For Graduates

*225. Seminary. Yr.; 1 cr. Mr. Griffith, Mr. Varnum.

JOURNALISM

PROFESSOR BLEYER (CHAIRMAN); ASSOCIATE PROFESSOR HYDE; ASSISTANT PROFESSOR JOHNSON; INSTRUCTOR BLACK.

The courses in journalism are designed to give the student instruction and practice in newspaper writing and editing, in some kinds of magazine writing, and in advertising, as well as to present present-day problems of journalism in the light of their origin and development. They have been arranged to meet the needs of students in the four-year Course in Journalism (see p.

*In the College of Letters and Science this course may not be counted toward graduation except by students in the course in Industrial Education or Applied Arts.

257), and of students in the Colleges of Letters and Science, Agriculture, and Engineering who desire training in journalistic writing.

The department has a large laboratory equipped like the city room of a newspaper office, with typewriters, reference books, maps, a "morgue," and a copy-desk. Adjoining this is a reading room with current files of representative American newspapers and journalistic periodicals, and a lecture room. To familiarize students of journalism with the principles of typography, the department has a printing laboratory for practical work in connection with the courses in editing, advertising, and newspaper administration.

Besides the instruction given by the Department of Journalism, several other departments offer courses especially for journalism students. The Law School gives a course in the law of the press, including the law of copyright, libel, and similar topics. The Department of Industrial Arts has special classes in drawing for students of journalism and advertising, which include cartooning, illustrating and sketching. A course in French journalism is offered by the Romance Languages Department. Courses in retail advertising, in commercial correspondence, in national advertising campaigns, and in the writing of advertising booklets are offered in the business administration section of the Department of Economics. Classes in agricultural journalism and advertising in the College of Agriculture are open to students of journalism and advertising.

Special lectures by editors and writers in active service are given from time to time for the students in journalism classes.

A complete description of the courses in journalism and advertising is given in a special bulletin, "Course in Journalism, 1922-23," which may be had upon application to the Director of the Course in Journalism.

Major in Journalism

For an undergraduate major in journalism are required, in addition to a thesis, not less than 24 credits, in which may be included, besides courses in the Department of Journalism, the Law of the Press (Journalism 25), Retail Advertising (Economics 15), French Journalism (French 18), and Agricultural Journalism. The courses in journalism required for an undergraduate major are Newspaper Reporting (Journalism 2), 6 credits; Editing

(Journalism 3), 6 credits; History and Principles of Journalism (Journalism 110), 6 credits; and either Editorial Writing (Journalism 104), 4 credits, or the Writing of Special Feature Articles (Journalism 105), 4 credits.

Graduate Study

Provision is made for directing research of graduate students in historical and contemporary phases of newspapers and magazines, as well as for giving special training in any kind of journalistic work. The Library of the State Historical Society, which occupies the same building as the University Library, contains one of the largest collections of bound files of American newspapers and magazines in this country and furnishes unusual opportunities for an historical study of English and American journalism from earliest times to the present. The master's degree in journalism is granted to graduate students who are preparing to teach journalism. University graduate scholarships are open annually to students in journalism.

For Undergraduates

1. General Survey of Journalism. Yr.; no cr. 1 hr. a week. Required of freshmen in the Course in Journalism. Mr. Bleyer.

2. Newspaper Reporting and Correspondence. Yr.; 3 cr. Primarily for sophomores. Mr. Hyde and Miss Black.

3. Newspaper Editing. Yr.; 3 cr. Prerequisite: Journalism 2 or equivalent practical experience. Mr. Johnson and Mr. Baker.

7. The Country Newspaper. I; 2 cr. Open only to juniors and seniors. Mr. Johnson.

8. Newspaper Administration. II; 2 cr. Open only to juniors and seniors. Mr. Johnson.

15. Retail Advertising (Economics 15). I; 2 cr. For seniors. Mr. Gardner.

16. Advertising Campaigns. (Economics 16.) II; 2 cr. For seniors who are specializing in advertising. Mr. Gardner.

18. French Journalism (French 18). Yr.; 2 cr., 1 in French, 1 in Journalism. Prerequisites: French 1a and 1b or equivalent. Mr. Ernst.

25. The Law of the Press. II; 2 cr.

50-51. Freehand Drawing and Illustration (Industrial Arts 50, 51). I or II; 3 cr. Mr. Varnum.

For Undergraduates and Graduates

104. Editorial Writing. Yr.; 2 cr. Primarily for seniors and graduates. Mr. Bleyer.

105. The Writings of Special Feature Articles. Yr.; 2 cr. Not open to sophomores. Mr. Bleyer and Miss Black.

109. Women's Departments in Newspapers and Magazines. II; 2 cr. For juniors and seniors. Miss Black.

110. History and Principles of Journalism. Yr.; 3 cr. Open only to seniors and graduates. Required for undergraduate and graduate major in journalism. Mr. Bleyer.

AGRICULTURAL JOURNALISM

1. Agricultural Journalism. I; 2 cr. Mr. Sumner.

4. Agricultural Advertising. II; 2 cr. Mr. Sumner.

MATHEMATICS

PROFESSORS SKINNER, SLICHTER, VAN VLECK (CHAIRMAN); ASSOCIATE PROFESSORS DOWLING, DRESDEN, MARCH; ASSISTANT PROFESSORS HART, LANE, WEAVER; INSTRUCTORS ALLEN, BABCOCK, H. T. DAVIS, J. E. DAVIS, FELTGES, HAYDEN, MACQUEEN, MILLER, RECHARD, SCOTT, WAPPLE, WOOD; ASSISTANTS ARMENTROUT, BUNYAN, MARQUIS, MCLENEGAN.

FELLOW, MR. INGRAHAM.

SCHOLARS, MR. BEAMS, MISS HUNT, MISS HARRINGTON (SANTA CLARA SCHOLAR).

In this department, courses 1 to 8 are planned to give a working knowledge of elementary mathematics. Courses 1c and 7 are required of students in the Course in Commerce, courses 51 to 55 are required of students in Engineering, and course 71 is required of students in Agriculture.

Students who elect the minimum amount of mathematics in fulfillment of requirement "C" (see requirement for degree of bachelor of arts), may choose eight hours from any of courses 1 to 8.

Students electing mathematics with a view to teaching the subject in the high schools are referred to the section on mathematics in the School of Education. Course 5 is strongly recommended in preparation for teaching.

It will be advantageous for all students expecting to elect mathematics to present at least one and one-half units of algebra for entrance.

Major and Minor in Mathematics

The minimum requirement for an undergraduate major in mathematics consists of 21 credits which shall include courses 5, 6, 112 or 113, and other courses numbered 100 or above.

Students entering the junior class with advanced standing from other institutions and desiring to complete an undergraduate major in mathematics in four semesters should previously have completed the equivalent of course 5. The requirements for mathematics as a major or minor subject in the School of Education are given on page 279.

For Undergraduates, College of Letters and Science

1. Algebra. I or II; 4 cr. For students presenting one unit of algebra for entrance. Prerequisite to all other courses except 1c, 2 and 8. Mr. Skinner and staff.

1c. Algebra for Commerce Students. I or II; 3 cr. Similar to course 1 but briefer. Required of students in the Commerce Course, and open to special course students but to no other students. Mr. Skinner and staff.

2. Trigonometry. I or II; 4 cr. Prerequisite to all other courses except 1, 1c, 7, 8 and 24. Mr. Skinner and staff.

3. Analytic Geometry. I; 3 cr. Recommended to students presenting one and one-half units of algebra for admission and who have taken or are taking course 2. Miss Allen, Mr. Van Vleck.

4. Analytic Geometry. II; 4 cr. Miss Allen, Mr. H. T. Davis, Mr. Miller.

5. Calculus. Yr; 3 cr. Begins each semester. Students who intend to specialize in mathematics or who desire calculus for applications in science are advised to take course 5 in the sophomore year. Course 3 or 4 must be taken simultaneously by students who have not had analytic geometry. Mr. Dowling, Mr. Dresden, Mr. Skinner.

6. Determinants and Analytic Geometry of Three Dimensions. I; 3 cr. Prerequisite: course 3 or 4. Mr. Dresden.

7. Commercial Algebra. I or II; 3 cr. Required of students in the Course of Commerce. Prerequisite: course 1 or 1c, or equivalent. Mr. Skinner and staff.

8. Solid Geometry. I; 3 cr. Mr. Rechard.

24. Theory of Life Insurance. Yr.; 2 cr. Prerequisite: course 7 or its equivalent. Mr. Dowling.

90a. The Teaching of Mathematics. I or II; 2 cr. Open to seniors who are preparing to teach mathematics either as major or minor subject. Mr. Hart.

90b. The Content of Secondary Mathematics. II; 2 cr. Admission to course restricted to students enrolled in the School of Education. Mr. Hart.

100. Thesis Course. 2 cr. Mr. Dresden.

For Undergraduates, College of Engineering

50. Subfreshman Algebra. I; no cr. For students who fail to pass the examination for admission to course 51. Mr. Babcock and staff.

51. Elementary Mathematical Analysis. I or II; 5 cr. Required of freshmen in Engineering. Mr. Lane, Mr. March, Mr. Weaver and staff.

52. Elementary Mathematical Analysis. I or II; 5 cr. A continuation of 51. Required of freshmen in Engineering. Mr. Lane, Mr. March, Mr. Weaver, and staff.

54. Differential and Integral Calculus. I or II; 4 cr. Required of all sophomores in Engineering. Mr. Lane, Mr. March, Mr. Weaver, and staff.

55. Calculus. I or II; 4 cr. Continuation of 54; for all courses. Required of sophomores in Engineering. Mr. Lane, Mr. March, Mr. Weaver, and staff.

110. Higher Mathematics. Yr.; 3 cr. Elective for juniors, seniors, and graduate students. Mr. Weaver.

For Undergraduates, College of Agriculture

71. Mathematics for Agricultural Students. II; 5 cr. Mr. Babcock and staff.

For Undergraduates and Graduates

Course 5 is prerequisite to all courses in this group except 115 and 125.

111. Advanced Calculus. I; 3 cr. Mr. Skinner.

112. Differential Equations. II; 3 cr. Primarily a working course for students in mathematics and physics. Mr. Van Vleck.

113. Theoretical Mechanics. Yr.; 3 cr. May be taken by those who have had analytic geometry and calculus. Mr. Slichter.

114. Modern Analytic Geometry. II; 3 cr. In alternate years. (Omitted 1921-22.)

115. Projective Geometry. I; 3 cr. Mr. Dowling.

118. The Theory of Probabilities and Method of Least Squares. II; 2 cr. Mr. Slichter.

119. Differential Geometry. II; 3 cr. In alternate years. (Omitted 1922-23.) Mr. Skinner.

125. Theory of Equations and Introduction to Higher Algebra. II; 3 cr. Mr. Dresden.

126. Projective Differential Geometry. Yr.; 3 cr. Mr. Lane.

For Graduates

These courses are varied from year to year according to the needs of the students, other subjects being introduced in addition to those here announced.

220. Theory of Analytic Functions. Yr.; 3 cr. In alternate years. (Omitted 1922-23.) Mr. Van Vleck.

221. Theory of Functions of a Real Variable. Yr.; 3 cr. In alternate years. (Omitted 1921-22.) Mr. Van Vleck.

241. Elliptic Functions. Yr.; 2 cr. In alternate years. (Omitted 1921-22.) Mr. Dowling.

243. Modern Theory of Differential Equations. Yr.; 2 cr. Mr. Van Vleck.

244. Higher Geometry. II; 3 cr. In alternate years. (Omitted 1922-23.) Mr. Dowling.

246. Finite Groups. Yr.; 3 cr. (Omitted 1921-22.) Mr. Skinner.

250. Theory of Elasticity. Yr.; 2 cr. (Omitted 1921-22.) Mr. Slichter.

251. Theory of Potential. Yr.; 2 cr.; (Omitted 1921-22.) Mr. Slichter.

261. Seminary in the Theory of Functions of a Real Variable. Yr.; 1 cr. Mr. Van Vleck.

265. Harmonic Analysis. Yr.; 3 cr. Mr. March.

266. Theory of Numbers. Yr.; 3 cr. Mr. Skinner.

267. Calculus of Variations. Yr.; 3 cr. (Omitted 1921-22.) Mr. Dresden.

268. Partial Differential Equations. Yr.; 3 cr. (Omitted 1921-22.) Introductory course. Mr. Van Vleck.

270. The Mathematical Bases of the Theory of Relativity. II; 3 cr. In alternate years. (Omitted 1921-22.) Mr. Dowling.

271. Introduction to the Philosophy of Mathematics. I; 3 cr. Mr. Dresden.

Mathematical Club—For instructors and graduates. Twice monthly. The object of the club will be to follow important recent developments in mathematics.

Junior Mathematical Club—For all students interested in mathematics. Twice monthly.

METEOROLOGY

MR. ERIC R. MILLER, OF THE U. S. WEATHER BUREAU.

Courses 1 and 2 are intended to afford a general survey of atmospheric processes and their effects upon life on earth. Courses 103 and 106 are planned to prepare students of agriculture, commerce, engineering, journalism, medicine, physical geography, etc., for the treatment of meteorological and climatological questions of importance in their professions, and to fit students for the investigation of special problems in meteorology. Further opportunity to pursue original research under supervision will be provided if desired.

For Undergraduates

1. Weather and Climate. I; 3 cr. Mr. Miller.

2. Climate and Man. II; 3 cr. Mr. Miller.

For Undergraduates and Graduates

103. Meteorology. I; 3 cr. Prerequisites: Mathematics 111 and 112 and Physics 2, or equivalents. Mr. Miller.

106. Climatology. II; 3 cr. Prerequisites: Geology 4 or equivalent. Mr. Miller.

MUSIC

Emeritus PROFESSOR PARKER; PROFESSORS MILLS (CHAIRMAN), DYKEMA; ASSOCIATE PROFESSOR TOWNSEND; ASSISTANT PROFESSORS BURLEIGH, MORPHY, SWINNEY; INSTRUCTORS CATON, EASTMAN, GUNDERSON, HIBBETS, ILTIS, NASH, PETERSON, WILLMAN; ASSISTANTS CHANDLER, LEMMER, MITCHELL, LAMPERT.

The courses in music are open as electives to all students, except freshmen, in any department of the University who show

sufficient musical ability to pursue them with profit, and carry credit toward graduation as electives in many departments of the University with the following exceptions:

Courses 71 and 75 may only be taken without credit.

Advanced instruction in applied music may be taken as elective only by juniors and seniors of the University upon consultation with the Director of the School of Music after meeting with the examination committee of the School. Credit, not to exceed a total of ten semester hours, is given for applied music as for other collegiate studies.

THEORY AND PRACTICE

For Undergraduates

1. Harmony. Yr.; 3 cr. Miss Eastman, Miss Nash.

11. Harmony. Yr.; 3 cr. Prerequisite: course 1. Miss Eastman.

21. Counterpoint. Yr.; 2 cr. Prerequisite: course 11. Mr. Mills, Miss Eastman.

31. History. Yr.; 2 cr. Mr. Mills, Miss Eastman.

36. History of Piano Music and Its Technic. Yr.; 2 cr. Mr. Townsend.

41. Methods and Practice. Yr.; 2 or 4 cr. Public School Music first year. Miss Willman.

45. Public School Music. Yr.; 2 cr. Mr. Dykema, Miss Willman.

51. Methods and Practice. Yr.; 2 or 4 cr. Public School Music, second year. Mr. Dykema.

55. Methods and Practice. 2 or 4 cr. Public School Music, third year. Mr. Dykema.

61. Appreciation of Music. (Omitted 1921-22.)

65. Appreciation of Music. Yr.; 1 cr. Open to student body. Mr. Mills.

71. Sight Singing and Ear Training. Yr.; 1 cr. Miss Willman,

75. Sight Singing and Ear Training. Second year. Yr.; 1 cr. Miss Willman.

76. Orchestra. Yr.; 1 cr. Prerequisite: the ability to play some instrument. Mr. Morphy.

77. Choral Music. Yr.; ½ cr. Mr. Dykema.

78. Community Music. I; 2 cr. Mr. Dykema.

79. Selection and Interpretation of Music Material. II; 2 cr Mr. Dykema. (Not given 1921-22.)

80. Applied Music. No college credit. Course for beginners in Applied Music.

81. Piano. Yr.; cr. to be arranged. Mr. Townsend, Miss Gunderson, Mr. Iltis, Mr. Hibbets.

82. Voice. Yr.; cr. to be arranged. Mr. Swinney, Miss Peterson, Mrs. Caton.

83. String and Orchestral Instruments. Yr.; cr. to be arranged. Mr. Burleigh, Mr. Morphy.

84. Organ. Yr.; cr. to be arranged. Mr. Mills, Miss Eastman, Miss Nash.

85. Ensemble. Yr.; 2 cr. (Omitted 1921-22.)

86. Ensemble. Yr.; 2 cr. (Omitted 1921-22.)

87. 1, 2, 3, 4, Second Subject in Applied Music. Yr.; 1 cr.

88. 1, 2, 3, 4, Second Subject in Applied Music. Yr.; 1 cr.

89. Elements of Practical Instrumentation. Yr.; 2 cr. Mr. Morphy.

90. Instrumentation. I or II; 2 cr. A continuation and development of course 89. Mr. Morphy.

100. Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

102. Harmony. Yr.; cr. to be arranged. Prerequisite: course 11. Mr. Mills.

112. Counterpoint. Yr.; cr. to be arranged. Prerequisite: course 21. Mr. Mills.

***122. Double Counterpoint, Canon and Fugue.** Yr.; 2 cr. Prerequisite: course 21. Mr. Mills.

***152. Instrumentation.** Yr.; 2 cr. Mr. Mills and Mr. Morphy.

***162. Composition.** Yr.; 2 cr. Small forms, etc. Mr. Mills.

For Graduates

***211. Modern Orchestration.** Yr.; hours to be arranged. Prerequisite: course 152. Mr. Mills.

***265. Free Composition.** Yr.; hours to be arranged. Prerequisite: course 162. Mr. Mills.

*Alternate years.

PATHOLOGY AND MEDICAL BACTERIOLOGY

PROFESSORS BUNTING (CHAIRMAN), CLARK; INSTRUCTORS BAILEY, BROWN, DAVIDSON, ZELLMER; STUDENT ASSISTANT LINGENFELTER.

For full description of courses in pathology, see announcement under Medical School.

For Undergraduates and Graduates

101. General and Special Pathology. I; 5 cr.; II; 2 cr. The work of the second semester is a continuation of that of the first semester.

102. Medical Bacteriology. I; 5 cr.

103. Experimental Pathology. II; 4 cr.

104. Immunity. II; 4 cr. Prerequisite: course 102.

107. Sanitary Bacteriology. II; 3 cr. Given in conjunction with Hygiene 126.

204. Advanced Pathology.

205. Journal Club. Yr.; 1 cr.

206. Advanced Bacteriology.

PHARMACOLOGY AND TOXICOLOGY

PROFESSOR LOEVENHART (CHAIRMAN); INSTRUCTORS BRUNQUIST, MCGARY; ASSISTANTS HESS, SCHNELLER.

For full description of courses in pharmacology and toxicology, see announcement under Medical School.

101. General Toxicology. II; 1 cr. Lectures. Mr. Loevenhart.

102. General Toxicology. II; 1 cr. Laboratory. Mr. Loevenhart.

104. General Pharmacology. I; 2 cr. Lectures. Mr. Loevenhart, Mr. Brunquist, Mr. McGary, Mr. Hess.

105. General Pharmacology. I; 2 cr. Laboratory. Mr. Loevenhart, Mr. Brunquist, Mr. McGary, Mr. Hess.

108. Advanced Work. Mr. Loevenhart.

112. Independent Investigation. Mr. Loevenhart.

116. Journal Club. Yr.

PHARMACY

Professor Kremers (chairman); Assistant Professor Langenhan; Instructor Wakeman; Assistants Clark, Heidbreder, Reif, Whelan.

Fellows, Mr. Hixon, Mr. Schwarz.

For Undergraduates

1. Pharmaceutical Technique. Yr.; 3 cr. Miss Wakeman, Mr. Heidbreder.

20. Elementary Prescription Practice. I; 3 cr. Mr. Langenhan, Mr. Clark.

22. Elementary Prescription Practice. I or II; 1 cr. For premedical students. Mr. Langenhan, Mr. Clark.

30. Pharmaceutical Technology. II; 4 cr. Mr. Langenhan.

40. Drug Store Practice. Yr.; 1 cr. Alternates with Pharmacy 50. Mr. Kremers, Mr. Reif, and special lecturers.

50. History of Pharmacy. Yr.; 1 cr. Alternates with Pharmacy 40. Mr. Kremers, Mr. Reif.

Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

121. Advanced Prescription Practice. I; 2 cr. Mr. Langenhan.

130. Advanced Pharmaceutical Technology. Cr. to be arranged. Mr. Langenhan.

For Graduates

230. Advanced Pharmaceutical Technology. To be arranged Mr. Kremers.

250. Conference of Research Workers. 1 or 2 hours. Mr Kremers.

Graduate Thesis. To be arranged. Mr. Kremers.

PHARMACOGNOSY

Assistant Professor Richtmann.

10. Pharmacognosy. Sources and Collection of Crude Vegetable Drugs. I; 1 cr. Mr. Richtmann.

20. Pharmacognosy. Crude Vegetable Drugs of the United States Pharmacopoeia and National Formulary. Yr.; 2 cr. Mr. Richtmann.

30. Pharmacognosy. Cultivation of Medicinal Plants. Yr.; 2 cr. Mr. Richtmann.

21. Pharmacognosy. I or II. Credit to be arranged. Mr. Richtmann.

100. Thesis. Yr.; 2 cr. Mr. Richtmann.

PHILOSOPHY AND PSYCHOLOGY

PROFESSORS JASTROW, MCGILVARY (CHAIRMAN), OTTO, SHARP; ASSISTANT PROFESSORS HULL, ROBINSON; INSTRUCTORS CULLER, MUELLER, PIATT, THAYER; ASSISTANTS EATON, PATTEN, PAYNE, SMILEY, SCHULTZ.

The student is at liberty to begin work in philosophy with any of the courses designated as for undergraduates. But beginners who desire to take three hours of work throughout the year in the department, whether they wish to continue with the subject or not, will ordinarily find it most profitable to select course 1 or 31 in the first semester, and either 1, 11, 21, 25 or 41 in the second semester.

The requirements for an undergraduate major in philosophy are a minimum of twenty-four credits including the thesis. Of these, at least twelve credits must be obtained in the courses for undergraduates and graduates. Students majoring in Philosophy are required to take courses 31 and 32; students majoring in Psychology are required to take courses 103 and 104.

For Undergraduates

1. Introductory Psychology. I or II; 3 cr.

Section 1. I. Mr. Jastrow.

Section 2. I. Mr. Sharp and staff.

Section 3. I. Mr. Sharp and staff.

Section 4. II. Mr. Culler and staff.

Section 2, 3 or 4 satisfies requirement in psychology for the University Teachers Certificate.

10. Experimental Psychology for Premedical Students. II; 3 cr. Mr. Hull.

11. Elementary Logic. I or II; 3 cr. Mr. Otto, Mr. Piatt, Mr. Robinson, Mr. Thayer.

19. Psychological Principles of Advertising. II; 2 cr. Mr. Culler.

21. Introduction to Philosophy. I or II; 3 cr. Mr. McGilvary.

25. The Relation of Man to Nature. II; 3 cr. Open to juniors, seniors and graduate students. Mr. Otto, Mr. Thayer.

31. History of Ancient and Medieval Philosophy. I; 3 cr. Mr. Robinson.

32. History of Modern Philosophy. II; 3 cr. Mr. Robinson. Prerequisite: Course 31, 21, 25, or an equivalent.

41. Ethics. II; 3 cr. Introductory course. Mr. Sharp.

42. Political Ethics. II; 2 cr. Mr. Sharp.

43. Business Ethics. I; 2 cr. Mr. Sharp.

Courses 42 and 43 may be taken independently of one another. For neither course is 41 a prerequisite.

49. Moral Education. II; 2 cr. (Omitted 1921-22.) Mr. Sharp.

51. Aesthetics. I; 2 cr. Mr. Jastrow.

For Undergraduates and Graduates

102. Foundation of Applied Psychology. II; 2 cr. (Omitted 1921-22.) Mr. Jastrow.

103. Experimental Psychology. Part I. I; 3 cr. Mr. Hull, Mr Mueller.

104. Experimental Psychology. Part II. II; 3 cr. Mr. Hull, Mr. Mueller.

Either course 103 or 104 may be taken independently of the other. Course 1 or its equivalent is a prerequisite for courses 103, 104, 106, 107, 108.

105. Research in Psychology. Cr. to be arranged. Mr. Jastrow, Mr. Hull.

106. Comparative Psychology of Behavior. II; 2 cr. (Omitted 1921-22.) Mr. Jastrow.

107. Abnormal Psychology. II; 3 cr. (Omitted 1921-22.) Mr. Jastrow.

108. Psychology of the Emotions. I; 2 cr. Mr. Jastrow.

115. Vocational Psychology. I; 3 cr. Prerequisites: either 103 or 104. Seniors or graduate students who have had Economics 130a, will be admitted provided they take 103 simultaneously. Mr. Hull.

120. Human Traits. II; 3 cr. (Omitted 1921-22.) Mr. Jastrow.

133. Modern Idealism. II; 2 or 3 cr. Prerequisite: Courses 21, 25, 31 or 32. Mr. Robinson.

134. Contemporary Philosophy. Yr.; 3 cr. Prerequisite: courses 21, 25, 31, or 32. Mr. McGilvary.

135. Descartes, Spinoza and Leibniz. II; 3 cr. (Omitted 1921-22.) Prerequisite: courses 21, 25, 31 or 32.

136. Locke, Berkeley, Hume. I; 3 cr. Prerequisite: courses 21, 25, 31, or 32. Mr. Thayer.

137. Kant. II; 3 cr. *The Critique of Pure Reason.* (Omitted 1921-22.) Prerequisite: courses 21, 25, 31, or 32. Mr. Thayer.

139. American Philosophy. I; 3 cr. With special reference to pragmatism. Prerequisite: 3 cr. in philosophy. Mr. Otto.

For Graduates

210. Psychological Seminary. Mr. Jastrow, Mr. Hull.

213. Logical Seminary. Mr. Otto.

240. Metaphysical Seminary. Mr. McGilvary.

247. Ethical Seminary. Mr. Sharp.

PHYSICAL EDUCATION

PROFESSORS JONES (CHAIRMAN), LOWMAN (DIRECTOR OF PROFESSIONAL COURSE), MEANWELL, TRILLING (DIRECTOR OF WOMEN'S GYMNASIUM); ASSOCIATE PROFESSOR ELSOM; ASSISTANT PROFESSORS H'DOUBLER, LIPPITT, RICHARDS, SCHLATTER; INSTRUCTORS BURKE, BROWNELL, ELMORE, KLEIN, LINDEN, MOSSCROP, QUICK, STEINAUER, VAIL, WESSON; ASSISTANTS BERG, HITCHCOCK, MCINTOSH, SPENGLER, TRUMPF.

See School of Education, p. 291, and Department of Physical Education, p. 436.

Courses of Instruction—Professional Students

Courses marked *(courses 16, 55, 59 and 80) are the only courses in physical education open for academic credit to students who are not registered in the Physical Education Course, School of Education.

1. Developmental Exercises. 1 or 2 cr. Prescribed for all freshmen and such sophomores as have not attained the requisite development. Men, two hours; women, four hours; weekly.

2. Advanced Exercises. 1 to 4 cr. Systematic courses in athletics. Open to all students who have attained the required de-

gree of organic power and bodily skill. Prescribed for sophomores who have completed course 1. Prerequisite: course 1 or its equivalent.

3. Special Corrective Exercises. 1 or 2 cr. Required of all freshmen and sophomores unfitted to take courses 1 and 2.

4. Efficient Living. The laws of personal and general hygiene. Given with course 1.

19. Practice Teaching. Yr.; 2 cr. Mr. Lowman, Miss Carns, Miss Elmore.

20. General Technique. a. Men. b. Women. For professional students. The practice course for students majoring or minoring in physical education. Parallel to courses 1 and 2, including in addition, instruction in nomenclature, elementary organization of materials, methods of leading sections and squads, and practice leading in courses 1 and 2. The course covers four years for major and two years for minor students.

21-40. Special Organization and Methods for Men. Cr. to be arranged. 21. Gymnastics (tactics, calisthenics, apparatus, tumbling). 22. Plays and games including tennis and handball. 23. Basketball. 24. Track and field. 25. Swimming and boating. 26. Dancing (men and boys). 27. Baseball. 29. Football—American. 30. Soccor, field hockey, and ice hockey. 34. Boxing, fencing, and wrestling. 21, 22, 23, 24 required for major or certificates. Prerequisite. Personal skill in the performance of each activity acquired in course 20 or its equivalent.

41-50. Special Organization and Methods for Women. 1 cr. 41. Gymnastics (tactics, calisthenics, apparatus). 42. Plays and games. 43. Folk dancing. 44. Basketball and field hockey. 45. Swimming and boating. 46. Advanced folk and esthetic dancing. 47. Baseball and track and field. 48. Rowing. 50. Fencing, archery and tennis. 41, 42, 43, 44 required for major or certificates. Prerequisite: Personal skill in the performance of each activity acquired in course 20 or its equivalent.

***16. First Aid to the Injured.** II; 1 cr. Mr. Elsom.

56. Kinesiology. I; 3 cr. Prerequisites: Physical Education 20 and Anatomy 121. Miss Carns.

107. Physiology of Exercise (Physiology 116). I; 3 cr. Prerequisites: course 56 and Physiology 105 or 115. Mr. Eyster, Mr. Dawson, Mr. Meek.

***55. History and Principles of Physical Education.** I; 3 cr. Prerequisites: General Physics first semester, Zoology 1b. Mr. Elsom.

***59. Nature, Function and Organization of Play.** I; 3 cr. Prerequisite: Philosophy 1. Mr. Lowman.

114. Medical Examination. (Clinical Medicine 101.) II; 3 cr. Prerequisites: Anatomy 121 and Physiology 105 or 115. Mr. Evans.

63. Physical Examinations and Gymnastic Therapeutics. Yr.; 2 cr. Prerequisites: Anatomy 121 and Physical Education 56. Either preceded by or taken in conjunction with Physical Education 107 and 114. Mr. Elsom, Miss Lippitt.

90. Principles of Teaching and Adaptation. I; 3 cr. Prerequisites: courses 20, 56 and 59 or 55. Miss Trilling.

68. Organization and Administration of Physical Education. II; 2 cr. Prerequisites: courses 20, 55, 59. Mr. Lowman and Miss Trilling.

71. Scouting and other Adolescent Organizations. Theory and Practice. II; 2 cr. Prerequisites: Philosophy 1 and Physical Education 59, or 3 cr. in education or sociology. Mr. Elsom.

***80. Community Recreation.** II; 2 cr. Prerequisites: Physical Education 59, or three credits in education or sociology. Mr. Elsom.

PHYSICS

PROFESSORS MASON, MENDENHALL, SNOW (CHAIRMAN); ASSOCIATE PROFESSORS INGERSOLL, ROEBUCK, TERRY; ASSISTANT PROFESSOR STEVE; INSTRUCTORS DAHM, ELDRIDGE, HOYT, PETERSEN, PHELPS, WAHLIN, WILLIAMSON; ASSISTANTS BENNETT, FOSSUM, GREEN, HORTON, KNAPP, MEACHAM, NETTLETON, ROUSE, SAWYER, SIMPSON, TAYLOR; STUDENT ASSISTANTS, AIKEN, ANDREE, GUILLEMIN, HANSON, NOLTE, ROLLEFSON, RUSCH, SPENCE.

FELLOW, MR. FARNSWORTH.

SCHOLAR, MR. DOWLING.

RESEARCH ASSISTANTS, MR. SLICHTER, MR. HAY, MR. DEVINNEY, MR. SHARP.

In order to adapt the instruction in physics to students of different degrees of preparation, the introductory course is given in two sections designated as courses 1 and 1Sc. Course 1 is arranged for those who have had no high school preparation in physics and who are taking this subject as a general informational or cultural study. Course 1Sc, which presupposes a year of physics in the high school, is more fundamental in character and furnishes a better preparation for courses 2-15.

Following these general courses nine others of an elementary character are given for all who desire a further knowledge of the subjects treated in courses 1 and 1Sc and for those who are preparing to teach. Courses 115-120 are more advanced in nature and lead to courses 211-220 which are strictly graduate in character and are designed for those who are making a special study of the higher branches of physics.

Major

The minimum amount of work acceptable for a major study in Physics is twenty credits in approved courses in addition to the university requirement of four credits for the thesis.

For Undergraduates, College of Letters and Science

1. General Physics. Yr.; 5 cr. For those who have had no high school preparation in physics. Mr. Snow, Mr. Ingersoll, and staff.

1Sc. General Physics. Yr.; 5 cr. For those who have had a year's course of physics in the high schools. Mr. Snow, Mr. Ingersoll and staff, Mr. Dahm, Mr. Eldridge, Mr. Petersen, Miss Phelps.

2. Heat. I; 3 cr. Lecture-conference and laboratory. Prerequisite: Physics 1 or equivalent. Mr. Roebuck and Mr. Petersen.

3. Light. II; 3 cr. Lecture-conference and laboratory. Prerequisite: Physics 1 or equivalent. Mr. Roebuck and Mr. Petersen.

4a and 4b. Electricity and Magnetism. I and II; 3 cr. Lecture-conference and laboratory. Prerequisite: Physics 1 or equivalent. Mr. Terry, Mr. Hanson.

7. Photography. II; 2 cr. Lectures and laboratory. Mr. Williamson.

8. Elements of Radio Telegraphy. II; 3 cr. Lectures and laboratory. Prerequisite: Physics 1 or equivalent. Mr. Terry, Mr. Hanson.

10. Laboratory Arts. I; 1 cr. Glass blowing and shop work. Required for courses 100 and 220. Mr. Dahm, Mr. Foerst.

15. Radio-activity and Discharge Through Gases. I; 2 cr. Laboratory and conference. Prerequisite: Physics 1 or equivalent. Mr. Williamson.

90. The Teaching of Physics. II; 2 cr. Mr. Steve.

100. Thesis. Yr.; 2 cr. Mr. Ingersoll, Mr. Roebuck, Mr. Terry.

For Undergraduates, College of Engineering

51. General Physics. I; 5 cr. Mechanics, Sound and Light. Mr. Roebuck, Mr. Ingersoll, Mr. Williamson and staff.

52. General Physics. II; 5 cr. Heat, Electricity and Magnetism. Mr. Roebuck, Mr. Ingersoll, Mr. Williamson and staff.

53. Mechanics and Heat. I; 3 cr. Required of sophomores in electrical engineering. Mr. Terry, Mr. Ingersoll and staff.

54. Electricity, Magnetism and Sound. II; 3 cr. Continuation of Physics 53. Mr. Terry, Mr. Ingersoll and staff.

55. Advanced Electricity and Magnetism. I; 3 cr. Required of juniors in electrical engineering. Mr. Terry, Mr. Nettleton, Mr. Wahlin.

56. Advanced Electricity and Light. II; 3 cr. Continuation of Physics 55. Mr. Terry, Mr. Nettleton, Mr. Wahlin.

For Undergraduates, College of Agriculture

61. General Physics. I or II; 5 cr. Required of agricultural students. Mr. Steve, Mr. Ingersoll and staff.

65. General Physics. Yr.; 3 cr. Required of sophomores in Home Economics. Mr. Snow, Mr. Steve, Mr. Ingersoll and staff.

For Undergraduates and Graduates

115. Introduction to Thermodynamics. I; 3 cr. Lectures. Mr. Roebuck.

116. Introduction to the Theory of Electricity. I; 3 cr. Lectures. Mr. Terry.

117. Physical Optics. II; 3 cr. Mr. Ingersoll and Mr. Petersen.

118a. Kinetic Theory of Gases. I; 3 cr. Lectures. Mr. Ingersoll.

118b. Mathematical Theory of Heat Conduction. II; 3 cr. Lectures. Mr. Ingersoll.

120. Colloquium. Yr. Mr. Mendenhall.

For Graduates

211. Advanced Dynamics. Yr.; 3 cr. (Offered 1923-24.) Mr. Mason.

213. Statistical Mechanics. II; 3 cr. (Offered 1922-23.) Mr. Mason.

214. Application of Thermodynamics to the Properties of Matter. II; 3 cr. (Offered 1923-24.) Mr. Roebuck.

215. Theory of Electricity. Yr.; 3 cr. (Offered 1922-23.) Mr. Mason.

216. Electromagnetic Theory of Light. Yr.; 3 cr. (Offered 1922-23.) Mr. Mendenhall.

217. Seminary. Application of Statistical Methods. Yr.; 2 cr. (Offered 1923-24.) Mr. Mason.

218. Seminary. Phenomena of Line Emission and Absorption. Yr.; 2 cr. (Offered 1922-23.) Mr. Mendenhall.

219. Thermal Radiation. Yr.; 3 cr. (Offered 1923-24.) Mr. Mendenhall.

220. Graduate Research. Yr.. Mr. Mendenhall, Mr. Mason, Mr. Ingersoll, Mr. Terry, Mr. Roebuck.

For courses in Mechanics, Harmonic Analysis, etc., see announcement by the Department of Mathematics.

PHYSIOLOGY

PROFESSORS MEEK (CHAIRMAN), EYSTER; ASSISTANT PROFESSOR DAWSON; INSTRUCTORS CROSKEY, HODGES, LEAKE; ASSISTANTS PFEFFERKORN, TASCHE.

For Undergraduates

1. Elements of Physiology. I; 3 cr. Especially adapted to teachers of elementary physiology and hygiene. Required of sophomores in the Course in Home Economics (2 cr.); open to other students who should have had some chemistry. Mr. Meek.

2. Elements of Physiology. I; 1 cr. Laboratory. Required of sophomores in the Course in Home Economics, open to others as an elective. Mr. Leake and assistants.

3. Animal Physiology. II; 4 cr. Primarily adapted to students in agriculture, but open to others as an elective. Prerequisites: chemistry and zoology. Mr. Meek, Mr. Leake, Mr. Pfefferkorn, Mr. Tasche.

For Undergraduates and Graduates

105. Physiology. Yr.; I; 2 cr.; II; 7 cr. Required of junors in medicine and open to others as an elective. Prerequisites: comparative or human anatomy, histology, neurology, and physiological chemistry. Mr. Eyster, Mr. Meek, Mr. Dawson and assistants.

115. Physiology. Yr.; I; 2 cr; II; 5 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: Anatomy 105, Physiological Chemistry 104 or 114. Mr. Eyster, Mr. Meek, Mr. Dawson, and assistants.

116. Physiology of Exercise. I; 3 cr. Required of seniors in physical education; open to others as an elective. Prerequisite: Physiology 105 or 115. Mr. Dawson, Miss Croskey.

118. Advanced Physiology and Research. Yr.; credit according to work done. Mr. Eyster, Mr. Meek, Mr. Dawson.

120. Journal Club. Yr.; 1 cr. Mr. Meek.

For Graduates

208. Advanced Laboratory Course in Physiology. Designed for teachers of animal physiology as well as for physicians and students of medicine who desire a wider experience in experimental physiology than can be gained in course 105. Mr. Eyster, Mr. Meek.

PHYSIOLOGICAL CHEMISTRY

PROFESSOR BRADLEY (CHAIRMAN); ASSISTANT PROFESSOR SEVRINGHAUS; INSTRUCTORS GODSHALL, KOEHLER; ASSISTANTS ELLIOTT, KESTEN.

For Undergraduates and Graduates

104. Physiological Chemistry. I; 4 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: general and organic chemistry, physics and biology. Mr. Bradley, Mr. Sevringhaus, Mr. Godshall and assistants.

114. Physiological Chemistry. I; 3 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: general chemistry. Mr. Bradley, Mr. Sevringhaus, Mr. Godshall and assistants.

117. Advanced Physiological Chemistry and Research. II; credit according to work done. Designed for teachers of chemistry or for physicians and students of medicine who desire a wider experience in experimental chemistry than can be gained in course 104. Prerequisite: Course 104. Mr. Bradley, Mr. Sevringhaus, Mr. Koehler.

120. Journal Club. Yr.; 1 cr. Mr. Bradley.

POLITICAL SCIENCE

Emeritus PROFESSOR PARKINSON; PROFESSORS HALL, OGG (CHAIRMAN); ASSISTANT PROFESSORS POTTER, STUART; INSTRUCTOR THOMPSON; LECTURER MACGREGOR; ASSISTANTS DOPKINS, LAW, SCHUMACHER.

SCHOLAR, ...

FELLOW, MR. MOTT.

The courses offered by the Department of Political Science are designed to afford a well-rounded view of the nature and activities of government and to give substantial acquaintance with public affairs, both national and international. Some of them are intended primarily to furnish information requisite for intelligent citizenship, along with the mental training which forms a part of any liberal education. Others involve more specialized study, with a view to expert knowledge of legislation, administration, judicial procedure, diplomacy, and public law. The courses are open, in general, to students above the freshman year, and all are elective. Course 7, which is given every semester, is the normal introduction to the work of the department. It is intended primarily for students in their sophomore year and ought, if possible, to be taken in that year. It is a prerequisite for courses 116, 117, 122, 123, 126, 129, 136, and 258, and is recommended as affording desirable preparation for all other courses. Courses which can be taken to advantage immediately after it are 2, 13, 32, 101, 112, 122, 125, and 131, according to the interest of the student.

Undergraduate Major

The minimum requirement for an undergraduate major in political science is twenty-one semester credits in addition to the senior thesis (four credits). The maximum number of credits in the department that can be counted toward graduation is forty. Normally a major should include courses 7, 101, 112, 116 or 117, 118 or 125, and 127. Students who expect to major in the department should take courses 101 and 112 not later than the junior year. The thesis may be written in any one of the fields designated below in groups I-V. Ordinarily, at least two courses in the field selected are required as a background for the thesis.

The Master's Degree

The general requirements for the master's degree, as authorized by the Graduate School, are stated in a later section of this

catalogue (see Index). Candidates for the master's degree in political science who have completed an undergraduate major in political science in this University or in any other institution of approved standing are required to present from the courses numbered 100 and above given in this department, as a minimum, a number of credits equal to one-half of the total graduate credits offered in support of the candidacy for the degree. The remaining work may be done in political science or in related subjects, or in both. Candidates who have not had the equivalent of an undergraduate major in political science are required to devote more—in some cases all—of their time to this subject. If their preparation is notably inadequate, they are required to give more than one year to the work for the degree, the minimum addition being a summer session.

The Doctor's Degree

The general requirements for the doctor's degree, as laid down by the Graduate School, are presented in a later section of this catalogue (see Index). Candidates in political science are assumed to be grounded in American government and constitutional law (at least the equivalent of courses 7 and 112), and in general political science to the extent to which that subject is covered in course 101. Any deficiency in this general preparation must be made up during the first year of graduate work.

1. FIELDS TO BE COVERED

Candidates will be examined in *seven* fields selected, under restrictions indicated, from the following three groups:

GROUP A

(Both fields required)

1. History of Political Thought; 2. Comparative Government.

GROUP B

(Fields 3-5 inclusive must be offered, *or* any three fields selected from 6-10.)

3. International Law; 4. Diplomacy (Organization and Practice); 5. World Politics; 6. National Government and Constitutional Law of the United States; 7. State and Local (including municipal) Government; 8. Administrative Law; 9. Legislation; 10. Roman Law and General Legal History.

GROUP C

(*Two* fields selected from the following list offered by other departments. Substitutions may be made in special cases by authority of the department.)

1. Ancient History; 2. Mediaeval History; 3. Modern European History; 4. English History; 5. American Colonial History; 6. History of the United States; 7. Economic Theory; 8. History of Economic Thought; 9. Statistics; 10. History of Economic or Social Institutions; 11. Finance (Public and Private); 12. Labor; 13. Land Economics; 14. Public Utilities; 15. Sociology; 16. History of Philosophy; 17. Logic and Scientific Method; 18. Metaphysics; 19. Ethics; 20. Psychology; 21. Personal and Real Property; 22. Contracts and Torts.

2. EXAMINATIONS

Candidates must pass two examinations in political science—designated as preliminary and final—separated by an interval of not less than seven months. Admission to candidacy for the degree will be determined by the preliminary examination. This examination will range over the various major fields which the candidate offers, and he may be excused by the department from farther examination in those fields (not including the field in which the thesis is written) in which he passes the preliminary examination with distinction. The preliminary examination will be both written and oral. The final examination will cover (1) the thesis and the field in which it lies, (2) any of the candidate's other fie'ds not covered in the preliminary examination, and (3) any fields so covered upon which the candidate failed to satisfy the department at the time of the preliminary examination. The final examination will be oral; but it may be supplemented with written examinations.

3. THESIS

The candidate must present a thesis which shows ability to carry on fruitful research and is itself a contribution to scholarship within the field. The thesis must be in such literary form as to make it suitable for publication.

Description of Courses

Courses 1-99 are intended for undergraduates. They may be taken by graduates, but not for credit.

Courses 100-199 are open, with credit, to both graduates and undergraduates.

Courses 200-299 are open, normally, only to graduates.

I. GENERAL POLITICAL SCIENCE

101. General Political Science. I and II; 3 cr. A survey of the entire field of political organization and practice. Mr. Potter.

145. History of Political Thought. Yr; 2 cr. The subject is covered in the first semester to the early eighteenth century; in the second, thence to the present day. Mr. Ogg.

256. Seminary in Contemporary Political Thought. II; 2 cr. Mr. Ogg. (Omitted 1921-22.)

II. AMERICAN GOVERNMENT

7. Government and Politics in the United States. I and II; 4 cr. Briefly covers national, state, and local government, and also political parties. Prerequisite for certain courses as indicated above. Mr. Stuart and assistants.

13. Municipal Government. I; 3 cr. Chiefly American, but with an introductory survey of European municipal organization. Mr. MacGregor.

114. Municipal Functions. II; 3 cr. Mr. MacGregor. (Omitted 1921-22.)

115. Practical Problems of Municipal Government. II; 2 cr. Mr. MacGregor.

116. State Administration in the United States. II; 3 cr. Mr. Thompson.

117. Federal Administration in the United States. I; 3 cr. Mr. Thompson.

122. Political Parties and Party Problems. I and II; 3 cr. Mr. Thompson.

123. The Foreign Service of the United States. I; 2 cr. The organization and workings of the diplomatic and consular services, and consultation regarding entrance to the foreign service. Mr. Potter.

126. Principles of Legislation. I; 2 cr. Mr. Hall.

129. Practical Problems of Democracy. I or II; 2 cr. Mr. Hall. (Omitted 1921-22.)

258. Seminary in Administration. Yr.; 2 cr. (Omitted 1921-22.)

III. FOREIGN AND COMPARATIVE GOVERNMENT

124. British Self-Governing Colonies. II; 2 cr. Mr. Ogg.

127. Government and Politics of England. I; 3 cr. Mr. Ogg.

128. Governments and Politics of Continental Europe. II; 3 cr. The systems chiefly dealt with are the French, German, Swiss, and Russian. Mr. Ogg.

IV. INTERNATIONAL ORGANIZATION AND RELATIONS

120. Far Eastern Politics. II; 2 cr. Mr. Ogg.

125. Modern Imperialism and Contemporary Colonial Policies. I; 3 cr. Rivalries for territory and commercial power since 1880, considered as factors in world politics. The topics taken up pertain principally to European and American relations with Africa, the Orient, and the Near East. Mr. Ogg.

131. Latin America and the United States. I and II; 2 cr. Mr. Stuart.

136. Recent and Contemporary Diplomacy. I or II; 3 cr. (Omitted in 1921-22.)

137. International Organization. II; 2 cr. Mr. Potter.

140. France and the Diplomacy of the Great War. II; 2 cr. Mr. Stuart.

150. Problems in International Law and Diplomacy. Yr.; 2 cr. Mr. Potter and Mr. Stuart.

255. Seminary in the Diplomacy of the Great War. I and II; 2 cr. (Omitted 1921-22.)

V. PUBLIC LAW AND JURISPRUDENCE

2. Elementary Law. II; 3 cr. A general introduction to private law. Mr. Hall.

25. Law of the Press. II; 2 cr. Intended primarily for students of journalism. Mr. Johnson.

109. Roman Law. II; 3 cr. Mr. Potter.

111. Jurisprudence. I or II; 3 cr. Open to students who have had an elementary course in law. (Omitted 1921-22.)

112. Introduction to the Constitution. I; 3 cr. An introductory course in constitutional law. Mr. Hall.

118. Principles of International Law. I; 3 cr. Mr. Potter.

119. International Law as Interpreted by the Courts. II; 3 cr. A study of principles and theory as illustrated by cases. Mr. Potter.

130. Judicial Administration. I or II; 2 cr. Mr. Hall. (Omitted 1921-22.)

142. Law of Public Service Companies. II; 2 cr. Mr. Hall.

201. Administrative Law I (Public Officers and Elections). I; 2 cr. Prerequisites: courses 7, 112. Mr Hall (Omitted 1921-22.)

202. Administrative Law II (General Principles). II; 2 cr. Prerequisites: courses 7, 112. Mr. Hall.

203. Administrative Law III (Taxation). I; 2 cr. Prerequisites: courses 7, 112. Mr. Hall. (Omitted 1921-22.)

204. Administrative Law IV (Municipal Corporations). II; 2 cr. Prerequisites: courses 7, 112. Mr. Hall.

261. Seminary in Legislation and Constitutional Law. II; 2 cr. Mr. Hall.

262. Constitutional Law. Yr.; 6 cr. Mr. Gilmore.

VI. MISCELLANEOUS

32. Current Political Topics. I and II; 2 cr. Intended primarily for students in journalism. Mr. Stuart.

ROMANCE LANGUAGES

Emeritus PROFESSOR OWEN; PROFESSORS GIESE,* SMITH*; LECTURER CESTRE**; ASSOCIATE PROFESSORS CERF,* CHEYDLEUR, COOL, REED, SCHLATTER, ZDANOWICZ (CHAIRMAN); ASSISTANT PROFESSORS ATKIN, BRADLEY, ERNST, GAY, GILLEN, LIPARI, LYON, MICHELL, ORTEGA; INSTRUCTORS BROOKS, DEXTER, FITE, GARWOOD, C. H. GREENLEAF, J. H. GREENLEAF, GRUNDLER, HALVERSON, HURLBUT, JORDAN, MOSIER, PALISSE, PHILLIPS, SALVAN, SCALLON, H. SMITH, M. SMITH, SPRAGUE, TILDEN, TIRAPEGUI, TREILLE, WILSON; ASSISTANTS ACTON, BONNET, CRANDALL, CRAWFORD, DE JANS, DUNSTAN, FISHER, MCGILVARY, MOTT, PONS, PUEHLER, SHOUT, R. SMITH, SOLA, WOFSY.

FELLOW, MR. HAELSIG.

SCHOLAR, MISS KINNE.

FRENCH SCHOLARS, MLLE BONNET, MLLE PONS.

The elementary courses in French and Spanish have been planned to meet the needs of those who have begun the language in high school, as well as those who take it up for the first time

*On leave of absence, 1921-22.
**Special appointment, second semester, 1921-22.

in college. One unit at high school is assumed to be the equivalent of one semester (4 credits) of college work. Courses 1 and 10 are consecutive general introductory courses.

French courses 13, 14, 15, and Spanish 14 and 15, are second year practice courses intended to supplement the training in French or Spanish 10, which emphasizes the acquiring of a reading knowledge. Any one of them may be taken only in conjunction with some other course in the language, except by special permission. French 16, 124, 127, 227, and Spanish 20 and 116, afford more advanced training in writing and speaking and are designed as supplementary courses for those aiming at a thorough knowledge of the language.

French 20 and 21 are parallel third year courses. Both are preparatory to the more specialized study of periods, genres, or individual authors. In French 20 more stress is laid on the linguistic side, while in French 21 more attention is devoted to the literary aspects of the works studied and the historical development of the literature. One of these two courses or its equivalent is prerequisite to advanced courses in literature, but only one may be taken for credit.

Spanish 21 is similarly designed to be introductory and prerequisite to other courses in Spanish literature.

Courses numbered between 100 and 200 are open both to undergraduates and graduates, the latter ordinarily doing additional work. Courses numbered above 200 are open only to graduate students except in unusual cases. At least one course of this group is required of all candidates for the M.A. who major in the department. The advanced courses are planned to cover adequately, in successive years, the principal periods and genres of Romance literatures, mediaeval and modern.

Courses in Old French, Provençal and other philological courses are grouped under Romance Philology.

Students intending to specialize in Romance languages are urged to elect some related courses in history, English and Classical literature, and philosophy. For satisfactory work in Romance philology some knowledge of Latin is indispensable.

The insertion of CL after the number of a course indicates that the course belongs also to Comparative Literature.

Major

Students are allowed to major in French or Spanish. An undergraduate major is not offered in Italian. In French the stu-

dent must take at least 24 credits in advance of first year French; in Spanish twenty-two credits in advance of first year Spanish.

A student taking a second Romance language does not count it as a part of his major, nor is it counted in the maximum forty hours allowed in one subject.

Students expecting to teach French as a major must take a minimum of twenty hours in advance of second year French. They are required to take the following French courses: 90, 190, four credits in composition and conversation, and at least six credits in French literature.

Students expecting to teach Spanish as a major must take a minimum of twenty-two credits in advance of Spanish 1. They are required to take at least two credits in composition and conversation, and the teachers' course (French 90).

Minor

For a minor in Spanish ten credits in advance of second year Spanish are required. At least two credits in composition or conversation must be included.

For a teaching minor in French there is required a minimum of twelve hours in advance of second year French. At least two credits in composition or conversation and at least three credits in some general course of French literature must be taken.

Clubs

Students are selected from classes beyond French 10 and offered the privilege of joining conservation clubs which meet fortnightly on Tuesday evenings. Similar organizations exist for students in Spanish, meeting on alternate Tuesday evenings.

Modern and classical French and Spanish plays are presented from time to time by the clubs.

French House

A French House intended especially for intensive training in speaking French is maintained by the Department of Romance Languages. It is open to women students for room and board. Both men and women rooming outside the house may take their meals there. French women reside in the house to aid in conversation, and they, with regular instructors, preside at the

tables. The language of the house is French. This house is also the headquarters for the various French clubs. Students desiring to reserve places for either the summer session or the regular term should apply well in advance to the Department of Romance Languages.

FRENCH

I. LANGUAGE

For Undergraduates

1a. Beginning French. I or II; 4 cr. Mr. Cheydleur and staff.

1b. Second Semester French. I or II; 4 cr. Prerequisite: One semester of college French or its equivalent. Mr. Cheydleur and staff.

10a. Third Semester French. I or II; 3 cr. Prerequisite: 1b or equivalent. Mr. Michell and staff.

10b. Fourth Semester French. I or II; 3 cr. Prerequisite: course 10a or equivalent. Mr. Michell and staff.

13. Rapid Sight-Reading. Yr.; 1 cr. Except by special permission to be taken only with some other French course. Mr. Michell and staff.

14. French Composition. Yr.; 1 cr. Supplementary to French 10 and, except by special permission, to be taken only with some other French course. Miss Gay and staff.

15. Elementary Conversation and Composition. Yr.; 2 cr. Prerequisite: 1b or its equivalent. Miss Gay and staff.

16. Intermediate Conversation and Composition. Yr.; 2 cr. Prerequisite: French 15 or its equivalent. Miss Gay and staff.

18. French Journalism. Yr.; 1 cr. in French and 1 cr. in journalism. Mr. Ernst.

20. Third Year Reading. Yr.; 3 cr. Mr. Fite, Miss Gay, Mr. Grundler, Mr. Jordan, Miss H. Smith, Mr. Wilson.

90. Theory and Practice of Teaching of French and Spanish. I or II; 2 cr. Miss Gay, Miss Johnson.

For Undergraduates and Graduates

124. Composition and Conversation. Yr.; 2 cr. Open to students who have had French 16 or its equivalent. Miss Gay, Mr. Fite.

127. Composition and Style. Yr.; 2 cr. Prerequisite: two years of composition or equivalent. Conducted in French. Mrs. Greenleaf.

190. Phonetics. Theory of the French sounds with practice in pronunciation. I or II; 2 cr. Mrs. Greenleaf.

For Graduates

227. Graduate Composition. Yr.; 1 cr. Conducted in French. Mrs. Greenleaf.

II. LITERATURE

Course 20 or 21, or the equivalent, is prerequisite to all other courses in French literature.

For Undergraduates

21. Elementary Survey. Yr.; 3 cr. Mr. Atkin, Mr. Bradley, Mr. Cheydleur, Mr. Gillen, Mr. Michell, Mr. Maxwell Smith.

50CL. Masterpieces of Romance Literature in Translation. Yr.; 2 cr. Mr. Michell. (This course does not carry language credit.)

For Undergraduates and Graduates

100. Thesis Course. Yr.; 2 cr. Open only to seniors and graduates. Two sections; 1. Musset, Mr. Ernst; 2. Daudet, Mr. Maxwell Smith.

122. French Literature of the Nineteenth Century. Yr.; 2 cr. Mr. Atkin.

123. Modern French Drama. Yr.; 3 cr. Mr. Michell, Mr. Zdanowicz.

125. Contemporary French Literature. Yr.; 3 cr. Mr. Ernst.

126. French Poetry. II; 3 cr. Explication d'auteurs (A. Chenier, Lamartine, A. de Vigny, Hugo). Mr. Cestre.

128. French Prose Writers of the Seventeenth Century. II; 3 cr. (Omitted 1921-22.) Miss Gay.

131. General Survey of French Literature. Yr.; 3 cr. Mr. Reed.

132. French Literature of the Eighteenth Century. II; 3 cr. (Omitted 1921-22.) Mr. Michell.

133. Victor Hugo. I; 3 cr. Conducted in French. (Omitted 1921-22.)

136. The French Novel from the Seventeenth Century to the Twentieth. Yr.; 3 cr. Mr. Cheydleur.

137. Moliere. I; 3 cr. (Conducted in French.) Mrs. Greenleaf.

138. Survey of French Drama from the Renaissance to the Romantic School. Yr.; 2 cr. (Omitted 1921-22.) Mr. Michell.

139. French Drama of the Seventeenth Century. I; 3 cr. (Omitted 1921-22.) Mr. Michell.

150. French Civilization. II; 1 or 2 cr. The contribution of France to the human ideal. A study of French literature, thought, and civilization from the middle ages to the present. Lectures in French, with assigned reading. Mr. Cestre. (Given in 1921-22.)

For Graduates

242. Old French Epic Poetry. Yr.; 2 cr. (Omitted 1921-22.) Mr. Smith.

247. From Froissart to Rabelais. Yr.; 2 cr. (Omitted 1921-22.) Miss Gay.

248CL. Medieval Literature. Yr.; 2 cr. (Omitted 1921-22.) Mr. Reed.

250CL. The Renaissance in Romance Countries. Yr.; 2 cr. (Omitted 1921-22.) (See Comparative Literature 250.)

252CL. Seminary in Ancient French Drama. Yr.; 2 cr. (Omitted in 1921-22.) Mr. Smith.

253. Seminary in French Literature. Yr.; 2 cr. Classicism. Mr. Zdanowicz.

254. Seminary in French Literature. Yr.; 2 cr. Romanticism. (Omitted 1921-22.) Mr. Atkin.

256. Criticism. Yr.; 2 cr. The principles of literary criticism in their historical development. (Omitted 1921-22.) Mr. Giese, Mr. Cerf.

ITALIAN

Except by permission of the instructor, Italian 10 is a prerequisite for all courses in Italian literature, which are conducted mostly in Italian.

I. LANGUAGE

For Undergraduates

1a. Beginning Italian. I; 4 cr. Mr. Lipari.

1b. Second Semester Italian. II; 4 cr. Mr. Lipari.

10. Second Year Italian. Yr.; 3 cr. (Given for 2 cr. 1921-22.) Prerequisite: One year of college Italian or its equivalent. Mr. Lipari.

II. LITERATURE

For Undergraduates and Graduates

102. Italian Literature of the Eighteenth and Nineteenth Centuries. Yr.; 3 cr. Mr. Lipari.

152. Italian Literature of the Fifteenth and Sixteenth Centuries. Yr.; 3 cr. (Omitted 1921-22.) Mr. Lipari.

160. The Divine Comedy. Yr.; 3 cr. (Omitted 1921-22.) Mr. Lipari.

161. Italian Literature of the Thirteenth and Fourteenth Centuries, (excluding the Divine Comedy). Yr.; 3 cr. (Omitted 1921-22.) Mr. Lipari.

PORTUGUESE

271. Portuguese Language and Literature. Yr.; 2 cr. Prerequisite: 3 years of College Spanish. The course is not repeated in identical form any two consecutive years. Mr. Reed.

SPANISH

I. LANGUAGE

For Undergraduates

1a. Beginning Spanish. I or II; 4 cr. Mr. Lyon and staff.

1b. Second Semester Spanish. I or II; 4 cr. Mr. Lyon and staff.

10a. Third Semester Spanish. I or II; 3 cr. Prerequisite: 1b or equivalent. Mr. Cool and staff.

10b. Fourth Semester Spanish. I or II; 3 cr. Prerequisite: 10a or equivalent. Mr. Cool and staff.

14a. Spanish Commercial Letter-Writing. I; 1 cr. Supplementary to 10a and not to be taken alone without permission. Mr. Cool and staff.

14b. Spanish Commercial Letter-Writing. II; 1 cr. Supplementary to 10b and not to be taken alone without permission. Mr. Cool and staff.

15. Elementary Conversation. Yr.; 1 cr. Supplementary to 10a and 10b, and to be taken only in connection with some other Spanish course, except by consent of the instructor. Mr. Ortega and staff.

20. Elementary Conversation and Composition. Yr.; 2 cr. Prerequisite: 1b or equivalent. Mr. Ortega and staff.

25. Intermediate Conversation and Composition. Yr.; 2 cr. Prerequisite: 20 or equivalent. Mr. Ortega and staff. (To be given 1922-23.)

For Undergraduates and Graduates

116. Composition and Conversation. Yr.; 2 cr. Prerequisite: Spanish 10 or equivalent. Beginning 1922, prerequisite: three years of Spanish. Mr. Ortega.

II. LITERATURE

Beginning 1923-24, course 21 or its equivalent is prerequisite to all other courses in Spanish literature.

For Undergraduates

21. Elementary Survey. Yr.; 3 cr. Prerequisite: Spanish 10b. Mr. Ortega and staff.

For Undergraduates and Graduates

Beginning 1922-23, three years of College Spanish or equivalent is prerequisite for all the following courses.

102. Spanish Contemporary Novel and Drama. Yr.; 3 cr. Conducted mainly in Spanish. Mr. Ortega.

103. Spanish Lyric Poetry. II; 3 cr. Conducted mainly in Spanish. Mr. Ortega.

104. Don Quijote. Yr.; 3 cr. Mr. Reed.

105. Survey of Eighteenth and Nineteenth Century Spanish Literature. Yr.; 3 cr. Mr. Lyon.

106. Spanish Drama. Yr.; 2 cr. Spanish drama of the eighteenth and nineteenth centuries. Mr. Lyon.

107. Galdos. Yr.; 2 cr. Mr. Ortega.

111. The Spanish Novel. Yr.; 2 cr. From its origins through the nineteenth century. Mr. Cool.

For Graduates

270. General Survey. Yr.; 2 cr. The course is not repeated in identical form any two consecutive years. Mr. Reed.

ROMANCE PHILOLOGY

For Graduates

240. Old French. Yr.; 2 credits. An introductory course. Mr. Schlatter.

244. Old Provençal. Yr.; 2 cr. (Omitted 1921-22.) Mr. Reed.

246. Seminary in French Paleography. Yr.; 2 cr. (Omitted 1921-22.) Mr. Smith.

249. Chretien de Troyes. Yr.; 2 cr. Prerequisite: French 240 or its equivalent. Miss Gay.

272. Origins of the Lingua Vulgaris. Yr.; 2 cr. (Omitted 1921-22.) Mr. Reed.

273. Romance Philology. Yr.; 2 cr. (Omitted 1921-22.) Mr. Reed.

SCANDINAVIAN LANGUAGES

PROFESSOR OLSON.

LANGUAGE AND LITERATURE

For Undergraduates

1. First Year Norse. Yr.; 4 cr. Primarily for freshmen.

2. Second Year Norse. Yr.; 4 cr. Literary selections. A continuation of course 1.

3. Norse Grammar and Literary Readings. Yr.; 3 or 4 cr. For students who have some familiarity with the spoken language, or who have a good knowledge of other foreign languages.

4. Novels and Dramas. Yr.; 2 cr. A continuation of course 2 or 3.

5. Ibsen's Dramatic Poems. (Brand and Peer Gynt.) Yr.; 2 cr.

6. History of Dano-Norwegian Literature. Yr.; 2 cr. Broch og Seip's *Litteraturhistorie* and *Boken om Norge*, V.

21. Composition and Conversation. Yr.; 2 cr. Course 2 or 3 is a prerequisite.

61. Swedish Literature. Yr.; 2 cr. Designed primarily for students who read modern Norse.

70. Norse Mythology and the Volsunga Saga. I; 2 cr.

71. Early Scandinavian Life and Literature. II; 2 cr. Lectures, with readings from the sagas in translation.

72. Scandinavian Classics, I; 2 cr.

73. Ibsen's Social Dramas. II; 2 cr.

74. Ibsen's Brand and Peer Gynt. I; 2 cr.

Courses 70, 71, 72, 73, and 74 are lecture courses and a knowledge of the Scandinavian language is not required.

For Undergraduates and Graduates

102. Modern Norse. Yr.; 2 cr. A rapid reading course for graduates who have a good knowledge of other modern languages.

109. Modern Norwegian Novels and Dramas. Yr.; 2 cr.

110. Modern Norwegian Poetry. I; 1 cr.

111. Norwegian Dialect Writers. II; 1 cr.

112. Scandinavian Literature. Yr.; 2 cr. A general survey.

SEMITIC LANGUAGES AND HELLENISTIC GREEK

Emeritus PROFESSOR WILLIAMS; ASSISTANT PROFESSORS KELLY, WOLFENSON (CHAIRMAN).

FELLOW, MR. ZELSON.

The various courses of this department are adapted to the needs of:

1. The general student, desiring to extend his culture, or with a view to teaching, by becoming acquainted with this non-Indo-European family of languages giving a view of a little known domain of intellectual development of great importance for liberal culture.

2. The intending theological student, or those already in the ministry, since the Semitic peoples furnish materials of the highest importance for theology.

3. The student of philosophy, comparative religion, and comparative literature.

4. The student of ancient history, anthropology, and sociology, desiring to come into contact with the earliest monuments and records.

5. The student of linguistics, desiring a view of a most important family of languages, a knowledge of which is essential to a thorough understanding of language processes.

6. The student of Semitic languages, literatures, and history for their own sake.

The general student may gain an acquaintance with the nature of the Semitic peoples and genius from the courses given in English, for which no knowledge of foreign language is necessary, viz., courses 23 and 24 Hebrew History, 25 Jewish History and Literature, 26 Geography and Archaeology of Palestine, and 28 Survey of Semitic Literature (Hebrew, Arabic, and other Oriental).

The language work of the department may be begun with Hebrew, Hellenistic Greek, or Arabic.

In addition to instruction in Hebrew and Hellenistic Greek (the original languages of the Bible), courses are offered in Arabic, Aramaic, Assyrian, and Syriac; and should occasion arise, opportunity will be given properly qualified students to prosecute studies in post-biblical Hebrew, Ethiopic, Old Egyptian, and Coptic.

Language Requirements and Freshmen

Courses of this department regularly open to freshmen are Hebrew 1, 2, 3, 4, and 7. These are counted in satisfaction of foreign language requirements.

Freshmen may begin Hellenistic Greek, but the elementary course counts only as an elective and not for foreign language requirements, unless permission is first secured from the Dean and Executive Committee. Courses in Hellenistic Greek in advance of the first year may be substituted for other foreign languages to the extent of eight credits.

Undergraduate Major
In Semitic Languages and Hellenistic Greek

The requirements for a major in this department are a minimum of 20 credits, including thesis, made up from any of the courses offered, excepting 1 and 2, 16 and 17, in one or more languages. Elementary courses in a second or third language of this department, however, will not be counted as a part of the 40 credits allowed as a maximum in any one department; and the amount of work required will be subject to increase and variation, depending upon the progress and needs of the individual student.

Graduate Work

See the general requirements for the M.A. and Ph.D. degrees and the circular of the Language and Literature Division of the University for details of graduate work in this department.

GENERAL COURSES, IN ENGLISH

(A knowledge of foreign languages not required.)

For Undergraduates

23. Hebrew History to Solomon. I; 2 cr. Hebrew cosmology, national origins, and political and social evolution. Mr. Wolfenson.

24. Hebrew and Jewish History. II; 2 cr. Mr. Wolfenson.

25. Jewish History and Literature. Yr. or II; 2 cr. The return from the Exile; the history, literature, and laws of the Jews to modern times. Mr. Wolfenson.

26. Historical Geography and Archaeology of Palestine. Yr.; 1 or 2 cr. Mr. Kelly.

28. Survey of Semitic Literature. II; 2 cr. The masterpieces of Hebrew, Arabic, and general Semitic literature in English. Mr. Wolfenson.

LINGUISTIC COURSES

SEMITIC LANGUAGES

For Undergraduates

1. Elementary Hebrew. Yr.; 4 cr. Mr. Zelson.

2. Elementary Hebrew. Yr.; beginning II; 2 cr. This course covers the same ground as the first semester of course 1. Mr. Kelly.

3. Second Year Hebrew. Yr.; 2 cr. Mr. Kelly.

Course 3, with additional work assigned by the instructor, may be given graduate credit.

7. Hebrew Prose Composition and Conversation. Yr.; 1 or 2 cr. Mr. Kelly.

31. Elementary Yiddish. I; 3 cr. A knowledge of German or some acquaintance with spoken Yiddish is prerequisite. Mr. Wolfenson.

32. Advanced Yiddish. II; 3 cr. Course 31 or a reading knowledge of Yiddish is prerequisite. Mr. Wolfenson.

For Undergraduates and Graduates

104. Advanced Hebrew. Yr.; 2 cr. Includes post-biblical and modern Hebrew literature. Mr. Wolfenson.

105. The Minor Prophets. Yr.; 2 cr. An advanced course. Mr. Kelly.

106. The Book of Job. Yr.; 2 cr. Mr. Kelly.

108. Hebrew Syntax. Yr.; 2 cr. Mr. Wolfenson.

112. Elementary Arabic. Yr.; 2 cr. Mr. Wolfenson.

112a. Elementary Arabic. II; 3 cr. For those desiring an opportunity to begin Arabic the second semester. Mr. Kelly.

113. Advanced Arabic. Yr.; 2 cr. Mr. Wolfenson.

114. Elementary Assyrian. Yr.; 2 cr. Mr. Kelly.

115. Talmud. Yr.; 2 cr. Mr. Wolfenson.

127. The Psalms—Books I and II. Yr.; 2 cr. Mr. Kelly.

129. Biblical Aramaic; Syriac. Yr.; 2 cr. Mr. Kelly.

For Graduates

209. Advanced Hebrew Syntax. I; 2 cr. Mr. Wolfenson.

210. Advanced Hebrew Etymology. I; 2 cr. Historical and comparative grammar are introduced. Mr. Wolfenson.

211. Hebrew Seminary. Yr. A knowledge of Hellenistic Greek, Latin, German, and French is necessary for the most effective work, but a knowledge of all the languages specified is not indispensable. Mr. Kelly, Mr. Wolfenson.

230. Semitic Epigraphy. Yr.; 2 cr. Mr. Kelly.

HELLENISTIC GREEK

For Undergraduates

16. Elementary Hellenistic Greek. Yr.; 4 cr. For those who have not studied classical Greek. Mr. Kelly.

17. Elementary Hellenistic Greek. Yr.; beginning II; 2 cr. This course covers the same ground as the first semester of 16. Mr. Kelly.

18. Second Year Hellenistic Greek. Yr.; 2 cr. Mr. Kelly.

For Undergraduates and Graduates

119. Advanced Hellenistic Greek. Yr.; 2 cr. Mr. Wolfenson.

120. The Book of John. Yr.; 2 cr. Mr. Wolfenson.

For Graduates

221. Hellenistic Greek Seminary. Yr. French, German, Latin, and Syriac are necessary for the most effective work. Mr. Wolfenson, Mr. Kelly.

222. Advanced Hellenistic Greek Grammar. Yr.; 2 cr. Mr. Wolfenson.

SPEECH

PROFESSOR O'NEILL (CHAIRMAN); ASSOCIATE PROFESSOR BLANTON; ASSISTANT PROFESSORS JOHNSON, WEAVER, WEST; INSTRUCTOR MCCARTHY; ASSISTANTS MCCONKEY, STINCHFIELD.

The courses of this department are intended to serve two main purposes: I. To educate the general student in the fundamentals of speech (private and public), covering both scientific and artistic aspects, both organized knowledge and personal proficiency. II. To prepare especially qualified students to become teachers in

one or more of the following sections of this field: (a) argumentation and debate, and the composition and delivery of public speeches; (b) reading and dramatic art, both acting and producing; (c) voice training and the correction of speech disorders; (d) the psychology and pedagogy of reading and speaking. The courses are so arranged as to make possible systematic and progressive study during the sophomore, junior, and senior years. Courses in speech are not open to freshmen.

The University of Wisconsin participates in several intercollegiate contests in oratory and debate, and further opportunity for practice outside of regular courses is to be found in local student activities in drama, oratory, and debate. Students interested in these activities should take the following courses in preparation: For dramatic work, 12, 16, 17, 19; for oratory, 7, 13, 105; for debate, 3a, 7, 8, 11.

Courses 3a, 3b, 11 and 105 may be counted toward the English major. Courses 3a and 3b, listed also as courses in English, are part of the work of this department.

A major can be obtained only as permitted by the provisions of the teaching major. A minor is twenty credits in selected courses approved by the chairman of the department.

A teaching major may be obtained under the following conditions:

1. It is open only to candidates for the B.A. degree and the University Teachers Certificate who are intending to become teachers of speech, and who are definitely accepted by this department as satisfactory candidates for this major.

2. The department requirement is not less than 20 nor more than 32 credits, excluding thesis and departmental teachers courses.

For the requirements for the M.A. and Ph.D. degrees in this department see the announcements of the graduate school.

For Undergraduates

Speech Clinic. Throughout the university year. Free to all students. Expert guidance and assistance in the eradication of voice and speech defects of all kinds. Open fifteen to eighteen hours a week, so arranged as to make it possible for any student to get whatever treatment is needed. Mr. Blanton and staff.

3a. Argumentation. I and II; 3 cr. Open to all students except freshmen. Mr. O'Neill.

3b. Argumentative Addresses. II; 2 cr. Continuation of 3a. Written argument. Prerequisite: course 3a. Mr. O'Neill.

7. Elements of Public Speaking. I and II; 3 cr. Open to all students except freshmen. Mr. West, Mr. Weaver, Miss McCarthy.

8. Extempore Speaking. II; 2 cr. Open to all students except freshmen. Mr. West.

11. Debating. II; 2 cr. Continuation of 3a. Oral argument. Prerequisite: course 3a. Mr. O'Neill.

12a. Fundamentals of Vocal Expression. I; 3 cr. Recommended to those intending to teach literature and reading. Open to all students except freshmen. Miss Johnson, Miss McCarthy.

12b. Fundamentals of Vocal Expression. II; 3 cr. Continuation of 12a. Prerequisite: course 12a. Miss Johnson, Miss McCarthy.

13. Advanced Public Speaking. II; 2 cr. Prerequisite: course 7 or 11 or 105. Mr. O'Neill, Mr. Weaver, Mr. West.

16a. Dramatic Expression. I; 2 cr. Prerequisite: course 12b, or permission of instructor. Miss Johnson.

16b. Dramatic Expression. II; 2 cr. Continuation of 16a. Prerequisite: course 16a. Miss Johnson.

17. Public Reading. Yr.; 2 cr. Designed for those who show marked dramatic ability, and who wish to specialize in dramatic platform work. Prerequisite: course 16b and permission of instructor. Miss Johnson.

18. Interpretative Reading. I; 1 cr. Lecture and prescribed reading. Non-technical. Open to all students except freshmen. Miss Johnson.

21. Voice Training. I; 2 cr. Open to all students except freshmen. Mr. Blanton.

25. Correction of Speech Disorders. II; 2 cr. Mr. Blanton.

For Undergraduates and Graduates

105. Speech Composition. I; 3 cr. Prerequisite: course 3a or 7 or one year English composition after freshman year. Mr. O'Neill.

119. Dramatic Production. II; 3 cr. History of the theater. Theory and technique of stage production. Experimental study with stage models. Prerequisite: junior standing. Miss Johnson.

125. Advanced Correction of Speech Disorders. II; 3 cr. Mr. Blanton.

141. Psychology of Reading and Speaking. I; 3 cr. (Omitted 1921-22.) Mr. Weaver.

190a. Seminary in Teachers Problems. I; 2 cr. Open only to graduates and senior majors and minors in speech. Mr. Weaver and staff.

190b. Seminary in Teachers Problems. II; 2 cr. Open only to graduates and senior majors and minors in speech. Mr. Weaver and staff.

For Graduates

201. Seminary in Voice and Speech Correction. Yr.; 4 cr. Mr. Blanton.

205. Seminary in Rhetoric and Oratory. Yr.; 4 cr. Mr. O'Neill.

ZOOLOGY

PROFESSORS GUYER (CHAIRMAN), PEARSE; ASSOCIATE PROFESSORS MARSHALL, WAGNER; ASSISTANT PROFESSOR SMITH; LECTURER JUDAY; INSTRUCTOR NOLAND; ASSISTANTS BOYDEN, CHASE, FOLEY, FORSTER, GREGG, HALL, KENYON, MCDONALD, MOSSMAN, SMITH; STUDENT ASSISTANTS MOECK, ROSE, SNASHALL, STUCKI, THOMPSON.

A minimum of thirty credits is required for a major; besides the thesis this should include:

Zoology 1a and 1b or Biology 1; Zoology 9, 102, 104a, and 105. One elementary course in botany is required of those who have not taken Biology 1.

For the advanced courses, training in chemistry and ability to read French and German are desirable.

Medical students will find courses 6, 104a, 105, 111, and 119 of special interest.

Agricultural students will find courses 6, 9, 21, 110 to 113, and 119 of special interest.

For Undergraduates

1a. General Zoology. I; 5 cr. Courses 1a and 1b combined will satisfy the natural science requirement. Mr. Pearse and staff.

1b. Animal Biology. II; 5 cr. The second semester of Biology 1 or Zoology 1a. Mr. Guyer and staff.

3. Elementary Zoology. I; 3 cr. For agricultural students. Mr. Wagner and staff.

6. Heredity and Eugenics. I; 2 cr. Mr. Guyer.

For other courses in heredity see 107; 115; Botany 156; Genetics 101.

9. Elementary Entomology. II; 3 cr. Mr. Marshall.

21. Ornithology. II; 2 cr. Mr. Wagner.

90. The Teaching of Zoology. I; 2 cr. Miss Weber.

100. Thesis Course. For undergraduates.

For Undergraduates and Graduates

102. Invertebrate Zoology. I; 5 cr. Mr. Wagner.

103. The Vertebrates. I; 2 cr. Mr. Wagner.

104a. Comparative Anatomy of Vertebrates. II; 5 cr. Mr. Wagner.

104b. Vertebrate Anatomy. I; 3 cr. Mr. Wagner.

105. Elements of Vertebrate Embryology. I; Embryogeny, 3 cr.; II Organogeny, 2 cr. Miss Smith.

107. Evolution Problems. II; 2 cr. Miss Smith.

110. Entomology: Anatomy and Embryology. II; 3 cr. Mr. Marshall.

111. Microscopic Anatomy and Micro-technique. I; 3 cr. Miss Smith.

112. Economic Entomology. I; 2 cr. Mr. Marshall.

113. Forest Entomology. II; 2 cr. Mr. Marshall.

114. Anatomy and Physiology of the Cell; Nondevelopmental Phenomena. I; 2 cr. Prerequisites: Chemistry and Embryology or Histology. Mr. Guyer.

115. The Cell in Development and Inheritance. II; 2 cr. Mr. Guyer.

116. Cytology. Yr.; 3 cr. A laboratory course. Mr. Guyer.

117. Animal Ecology and Natural History. II; 2 cr. Mr. Pearse.

119. Animal Parasites. II; 3 cr. For medical and agricultural students and those interested in the problems of public health. Veterinary students may take the laboratory work alone for two credits. Mr. Pearse.

122. Animal Behavior. I; 3 cr. Mr. Pearse.

123. Advanced Entomology. For students who desire to continue some special line of work. Mr. Marshall.

124a. Limnology. I; 2 cr. Mr. Juday.

124b. Plankton Organisms. II; 2 cr. A continuation of course 124a with field work. Mr. Juday.

For Graduates

220. Seminary. 2 cr. Mr. Guyer.

228. Research.

COURSE IN CHEMISTRY

J. H. MATHEWS, DIRECTOR, PROFESSOR OF CHEMISTRY.

The purpose of the Course in Chemistry is to train competent chemists for industrial, government and teaching positions. The United States is unquestionably the leading nation as regards chemical industries and our continued industrial supremacy is largely dependent on the ability of our universities to supply the ever increasing demand for men with adequate chemical training. Many industries are essentially chemical in character and have long employed chemists; others, because of the necessity of meeting changing conditions and keener competition, are finding it increasingly necessary to employ chemists to originate, simplify, and control plant processes.

The principal departmental bureaus of the Government employ a considerable number of chemists, both for research and control work. All of the larger cities require skilled chemists, as do many of the various state commissions and the federal and state Experiment Stations. The development of agriculture is largely dependent on the services of the chemist, and trained workers are in great demand in this field. Many industries are establishing central experimental and research laboratories for the intensive study of the specific problems relating to those industries. Positions in such laboratories are especially desirable, as they afford specialized training which leads to the attainment of especially lucrative positions. Research laboratories are being established for a great variety of purposes, and these laboratories must ever look to the universities for trained chemists. For these positions, especially, it is highly desirable that the four year course in chemistry be followed by from one to three years of graduate work. The demand for the exceptionally well trained man is steadily increasing and, wherever it is possible, the student who shows an aptitude for chemistry should plan for graduate training.

The thoroughly trained teacher of chemistry has an exceptional opportunity to play an important rôle in the social, economic, and industrial development of the nation. His opportunities to aid in the dissemination of useful knowledge, in the development of a wider appreciation of scientific knowledge, and to contribute to scientific progress both by his teaching and his opportunities for personal research, are such as to make this profession unusually attractive to those who have a sincere desire to serve their fellowmen.

The curriculum of the Course in Chemistry is designed to offer a broad foundation in the chemical and related sciences. It does not profess to train chemists for special industries, for each industry has its special problems and special methods. Interwoven with the courses in chemistry are courses designed to broaden the understanding and to round out educational training. A number of electives are provided, and it is required that a certain number of these be studies other than chemistry. Students are expected to take a sufficient number of cultural studies to acquire the proper educational balance.

Requirements for Admission

See page 107.

Plan of Course of Study

Four courses of study are offered: A general course, a course for industrial chemist, a course for food or sanitary chemist, and a course for agricultural chemist. The first course will naturally be chosen by those who desire a broad, general training, while those who intend to go into industrial work will do well to choose the course for industrial chemists. The courses for food or sanitary chemist and for agricultural chemist are more specialized and will be elected by those who desire to train themselves for these particular lines of work. Attention is called to the fact that specialized training along the lines of soil chemistry and physiological chemistry may be obtained by election of courses in these subjects along with the required studies of the general course.

It will be observed that differentiation between the various lines begins in the second year. In all the courses a year each of general inorganic, analytical, organic, and physical chemistry is required. The course in English is the regular course required of all freshmen in the University. The equivalent of at least courses 2a and 2b in German and courses 1a and 1b in French is required for graduation from the course in chemistry. These languages must be pursued in not less than one-year courses. A student entering with preparation in but one of these languages will naturally continue work in it during the freshman year. Preparatory work in these languages may satisfy the graduation requirement in part.

In each of the courses, 130 credits and an equal number of grade points are required for graduation. Students will fre-

quently find it desirable to absolve a part of the requirements during one or more summer sessions. The work of the senior year includes the writing of a thesis, embodying the results of a detailed experimental investigation.

Each year at least one opportunity for an extended industrial trip will be offered. The Middle West has become an important center of chemical industries and nearly all of the more important chemical industries may be seen in operation here. It is expected that the students taking the Course in Chemistry will avail themselves fully of these opportunities to visit representative industrial plants. At least one such trip must be taken during the course. While it is not specifically required for graduation, students are urged to devote at least one of their summer vacation periods to practical chemical work in some chemical industry.

Requirements for Graduation

Students who have completed successfully any of the four courses of study as outlined below will be admitted to graduation from the University, and will receive the degree of Bachelor of Science, Chemistry Course.

Courses of Study

ALL COURSES

Freshman Year

First Semester	Credits	Second Semester	Credits
Chemistry 1a	5	Chemistry 1b	5
Mathematics 1C	3	Mathematics 2	4
German or French	4	German or French	4
English 1a	3	English 1b	3
Mechanical Drawing	1	Mechanical Drawing	1
Total	16	Total	17
Military Drill		Military Drill	
Physical Education		Physical Education	

GENERAL COURSE

Sophomore Year

First Semester	Credits	Second Semester	Credits
Chemistry 11	5	Chemistry 11	5
German or French	4	German or French	4
Physics 1Sc	5	Physics 1Sc	5
Chemistry 10 (or Mathematics 3 or 5**)	3	Bacteriology,* or Mineralogy (or Mathematics 5)	3
Total	17	Total	17
Military Drill		Military Drill	
Physical Education		Physical Education	

Junior Year

Chemistry 120	5	Chemistry 120	5
Chemistry 130	5	Chemistry 130	5
German or French	4	German or French	4
Electives	3	Electives	3
Total	17	Total	17

Senior Year

Thesis	2	Thesis	2
Chemistry 119	3	Chemical Engineering 120	2
Chemistry 107	2	Electives	11
Chemical Engineering 15	3		
Electives	5		
Total	15	Total	15

NOTE: Of the 22 electives provided, *at least* 10 must be taken in subjects other than Chemistry.

COURSE FOR INDUSTRIAL CHEMIST

Sophomore Year

Same as for sophomore year of General Course, *except* that Bacteriology, Mineralogy, or Metallurgy (*or* Mathematics 5) may be elected. (3 credits.)

Junior Year

Same as for junior year of General Course.

Senior Year

First Semester	Credits	Second Semester	Credits
Thesis	2	Thesis	2
Chemical Engineering 15	3	Chemical Engineering 111	2
Chemical Engineering 114a	4	Chemical Engineering 120	2
Economics 11	2	Electives	9
Electives	4		
Total	15	Total	15
Military Drill		Military Drill	
Physical Education		Physical Education	

*If mineralogy or Mathematics 5 is elected in the sophomore year bacteriology must be taken later in the course.

**Students electing Mathematics 3 will follow this course with Mathematics 5 in the following semester.

COURSE FOR FOOD CHEMIST OR SANITARY CHEMIST

Sophomore Year

First Semester	Credits	Second Semester	Credits
Chemistry 11	5	Chemistry 11	3
German or French	4	German or French	4
Physics 1Sc	5	Physics 1Sc	5
Bacteriology 1	3	Botany 1	5
Total	17	Total	17
Military Drill		Military Drill	
Physical Education		Physical Education	

Junior Year

German or French	4	German or French	4
Chemistry 120	5	Chemistry 120	5
Botany 110	3	Botany 133	3
Chemistry 119	3	Chemistry 146	5
Electives	2		
Total	17	Total	17

Senior Year

Chemistry 130	5	Chemistry 130	5
Chemistry 107	2	Electives	7
Electives	6	Thesis	2
Thesis	2	Chemistry 113	1
Total	15	Total	15

Of the 15 elective credits, at least 8 must be taken in subjects other than Chemistry.

COURSE FOR AGRICULTURAL CHEMIST

Sophomore Year

First Semester	Credits	Second Semester	Credits
Chemistry 11	3	Chemistry 11	3
German or French	4	German or French	4
Botany 1	5	Agricultural Chemistry 1	3
Physics 1Sc	5	Agricultural Chemistry 2	2
		Physics 1Sc	5
Total	17	Total	17
Military Drill		Military Drill	
Physical Education		Physical Education	

Junior Year

Chemistry 120	5	Chemistry 120	5
German or French	4	German or French	4
Agricultural Chemistry 121	5	Agricultural Bacteriology 1	3
Electives	3	Electives	5
Total	17	Total	17

Senior Year

Chemistry 130	5	Chemistry 130	5
Agricultural Chemistry 122	5	Physiology 3 or Botany 146	4
Electives	3	Electives	4
Thesis	2	Thesis	2
Total	15	Total	15

Of the 15 elective credits, at least 8 must be taken in subjects other than Chemistry.

Departments of Instruction

For detailed information regarding the preceding courses, see the announcements of the several departments of the College of Letters and Science, College of Engineering, College of Agriculture, and the Medical School.

Laboratories

A description of the various scientific laboratories of the University may be found by referring to the Index.

Charges and Fees

See pp. 80ff.

COURSE IN COMMERCE

W. A. Scott, Director, Professor of Economics.

Requirements for Admission

Students will be admitted to this course on compliance with the conditions imposed for entrance to the College of Letters and Science. (See p. 107.)

Transfers

Transfers from other institutions and from other courses in the University must meet all the requirements of this course. Substantial equivalents will be accepted for required courses, but no requirement will be waived. Courses in business subjects such as accounting, business administration, advertising, business law, etc., pursued in other institutions in the freshman year will not be accepted as equivalents of the courses offered here in these subjects. Only in exceptional cases, will courses in these subjects pursued in other institutions in the sophomore year be accepted as equivalents of courses offered here in these subjects in the junior and senior years. The required courses of the freshman and sophomore years for which credits or equivalents are not allowed must take precedence over all other courses in the programs of all transferred students. Those who upon entrance here

are granted 60 or more credits towards graduation will be limited in their election in the same manner as students whose grade points do not exceed 79 until they have demonstrated by work here or by records of the institutions from which they were transferred that they belong in the class of those whose grade points aggregate 80 or more.

Special Students

Programs which do not comply with the regulations hereinafter described will be allowed only in the cases of students who are not candidates for a degree and who have had here or elsewhere a two year's college course or its equivalent and who have had the prerequisites of the particular courses they wish to pursue. Until such students have demonstrated their ability to maintain a grade of at least *fair* in the courses to which they are admitted, their status will be that of students on probation.

General Requirements

A total of 132 credits, exclusive of those required in physical education and drill, is required for graduation in this course. Among these must be included credits in foreign language sufficient to aggregate, together with those acquired in high school, not less than thirty-two, of which not less than eight may be offered in any one language, and not less than thirty credits in the field of economics. Without special permission of the Dean no student may take courses aggregating fewer than 14 credits per semester. In case a student has received grades of *good* in all studies of the preceding semester, he may take a program which will aggregate not to exceed 18 credits. No student will be permitted to receive more than 18 credits towards graduation in one semester in classroom work except by permission of the Faculty, obtained in advance.

Plan of the Course of Study

The studies of the course may be classified under the following heads:

Preliminary Studies

To this group belong the studies which are regarded as essential in a liberal education and as a necessary foundation for more

specialized subjects to be pursued later. They comprise courses in natural science, mathematics, English, foreign language, history, economics and accounting. In natural science, physical geography and physiography of the United States are required as a basis for economic geography, upon which in turn are built several specialized courses in applied economics. In addition students elect a year's course in physics, chemistry, biology or geology. The courses in English are the general training course required of all freshmen in the University and a course in commercial correspondence. In the foreign language courses special attention is devoted to the acquisition of a speaking and writing command of the language for commercial purposes. The preliminary courses in economics and history are the economic and social history of England and the elements of economics. Elementary accounting is required in this group in preparation for the advanced courses in accounting which follow.

These courses are included in the curriculum of the freshman and sophomore years and are required prerequisites for the work of the junior and senior years.

Professional Studies

These include a group of courses designed to teach students to understand and actually to perform various processes common to all branches of business, and a number of other groups designed to promote specialization in particular fields. In the first group are included courses in accounting, auditing, salesmanship, advertising, credits and collections and marketing methods. The special groups are arranged, so far as possible, to meet the needs of individual students. Some of them are described below.

Elective Studies

Approximately one-half of the student's time in the junior and senior years is available for free election from the courses offered in the various colleges and departments of the University. The opportunity here presented may be utilized to broaden the student's outlook into fields of knowledge not covered by the requirements of his course or to supplement the studies already pursued.

Arrangement of Studies

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1	3	English 1	3
Geology 5C	3	Geology 5C	3
History 6	3	History 6	3
Mathematics 1C	3	Mathematics 7	3
Foreign Language	4	Foreign Language	4
Total	16	Total	16
Military Drill		Military Drill	
Physical Education		Physical Education	

Sophomore Year

Economics 1a	4	Economics 1b	4
Accounting 8a	2	Accounting 8b	2
Science	5	Science	5
Foreign Language	4	Foreign Language	4
Elective	2	English 4	2
Total	17	Total	17
Military Drill		Military Drill	
Physical Education		Physical Education	

Junior

In the junior year all students must take Economics 5, 135, 130a and 181 and foreign language, if they have not previously completed the amount required, and must elect a sufficient number of other courses to aggregate 34 credits for the year. Those whose grade points during the first two years of the course do not exceed 79 must also take Economics 3. They may not include among their electives during this year courses in Business Administration or Economics 133, 134, and 137, nor may they elect, in addition to their required work, more than six credits per semester in any one department.

Students whose grade points during the first two years aggregate 80 or more may elect not to exceed 6 credits per semester from Business Administration 10, 11, 12, 13, 14, 15 and 16 and Economics 137, 133, 134 provided they have had the necessary prerequisites.

Senior

All students in the senior year must take Commercial Law (Economics 109), Business Administration 11 and 13 and Economics 3 and 137 provided these were not elected in the junior year and a sufficient number of other courses to complete their language and major* requirements and the 132 credits required

*That is the requirement of not less than thirty nor more than fifty-two credits in Economics.

for graduation. Among these must be included a thesis in the cases of students whose grade points at the end of the junior year exceeded their credits by at least 50 per cent. Other students may be selected to write theses by vote of the commerce faculty.

In preparation for the writing of a thesis, at the beginning of the junior year each student should arrange with his advisor a group of correlated courses in some field of study. The following are samples of such groups. Others may be arranged.

Elective Groups

Banking and Finance

Financial History of the U. S., 3; Money Markets, 3; Corporation Finance, 3; Investments, 2; Public Finance, 3.

Accounting

Advanced Accounting Problems, 2; Auditing, 2; Analysis of Corporation Reports, 2; Cost Accounting, 2; Accounting Systems, 2; Governmental Accounting, 1; Corporation Finance, 3; Investments, 2.

Advertising and Marketing

Credits and Collections, 2; Marketing Methods, 2; Sales Administration, 2; Psychological Principles of Advertising, 2; Retail Advertising, 2; Advertising Campaigns, 2.

Transportation and Public Utilities

Railway Rate and Traffic Problems, 3; Public Utilities, 2; Corporation Finance, 3; Government and Politics of the U. S., 3.

Business Administration

Fundamentals of Business Management, 2; Problems of Business Management, 2; Credits and Collections, 2; Marketing Methods, 2; Social Psychology, 3; Business Ethics, 2.

Insurance

Mathematics 124, 3; Insurance Economics, 3; Seminary in Insurance, 2; Industrial Insurance, 2; Corporation Finance, 3; Investments, 2.

Commercial Teachers

Education 15 (requirements for a teachers certificate); Advanced Accounting Problems, 2; Auditing, 2; Business Administration, 2.

For detailed information with regard to the foregoing courses of instruction see the announcements of the several departments of the College of Letters and Science.

Requirements for Graduation

Students who have successfully completed the above course of study will be admitted to graduation and will receive the degree of Bachelor of Arts.

Graduate Students

Graduates of this or other colleges and universities of good standing will be admitted to this course, and arrangements will be made so that they may take its peculiar studies in two years or less, provided they have already pursued some of them in their undergraduate courses.

Preparation for Teachers

Students who wish to prepare themselves for teaching are advised to take the commercial teachers group described above, which includes the courses prescribed for the teachers license in this state and given by the Department of Education, and courses in accounting and business administration in addition to those required of all students in the Course in Commerce. Facilities for pedagogical practice will be given such students in the accounting laboratories.

Special Lectures

Special lectures are provided from time to time for the purpose of acquainting students with present business conditions and opportunities. As far as possible men representing the chief business enterprises of the United States are secured for this purpose.

COURSE IN HUMANITIES

CARL RUSSELL FISH, CHAIRMAN, PROFESSOR OF HISTORY.

Purpose and Plan of the Course

It has long been felt by a large number of professors in the College of Letters and Science that the citizens of the State would welcome the establishment of a course based upon the

curriculum of the old College of Liberal Arts, with modifications which the trend of education in the last two generations has shown to be advisable. Such a course, leading to the degree of Bachelor of Arts (Course in Humanities), has been instituted for the benefit of students who may desire to devote a considerable part of their college work to non-professional, purely cultural development, either for its own sake, or as a general preparation for special study.

Students may here secure substantial introductions to the four great fields of learning: language and literature; history and its correlated branches; science; philosophy and mathematics. They will come in vital contact with one, at least, of the great civilizations of the ancient world. They will acquire the power to acquaint themselves with at least one of the great foreign civilizations of the modern world. They will have training in English composition and spend at least a year with the masters of English literature. They will be given the opportunity in courses in history, economics and political science to gain knowledge regarding the institutions of the past and of the present, and to study methods of analyzing social facts. An introduction to one of the sciences will open to them the world of natural phenomena, and bring to them some experience in scientific method. Courses in philosophy and mathematics will serve to induce in them habits of close reasoning.

It is believed that students who seek what is called a "general education" will see the desirability of the initiation into these four fields which is required in the new course. It is believed, also, that students who feel the need of passing quickly to a special subject with the intention of concentrating their attention upon it will consider that the delay entailed by the satisfaction of the requirements in the new course will be justified by the enlarged vision with which it will insure their entering upon their specialized work.

Election in this course is open to students already in the University as well as to incoming students. Information may be secured from any member of the committee in charge.

Requirements

1. The general requirements of the Course in Humanities are those of the general course leading to the degree of Bachelor of Arts. One hundred twenty academic credits and eight credits

in physical education (for women) or in physical education and military drill (for men) are required for graduation. In other respects the regulations governing the election of studies, major, and thesis, in the general course apply in the Course of Humanities, subject to the modifications involved in the following special requirements:

2. **Five Groups.** The student shall satisfy the requirements in each of the following five groups:

a. *English Composition and Literature*.....12 credits

b. *Foreign Language and Literature.*
Three of the following to be absolved by combining high school units and college credits:
1. Latin 24
2. Greek 14
3. French.....a reading knowledge
4. German.....a reading knowledge
(Possession of a reading knowledge of French and German will be determined by special examinations conducted by the committee.)

c. *Economics, History, Political Science*.....10 credits (of which six credits must be in history).

d. *Natural Science* .....10 credits

e. *Mathematics, Philosophy* .....12 credits
Satisfied by mathematics alone, by philosophy alone, or by a combination of credits in the two subjects. The credits in philosophy are to be from the introduction to or history of philosophy, ethics, logic, one semester of psychology.

3. **Major and Thesis.** The major must be chosen from the following fields:

a. Language, Literature.
b. Science.
c. Economics, History, Political Science.
d. Mathematics, Philosophy.

4. **Electives.** No electives may be taken in professional courses, except such as are required for the teachers certificate.

(Students in doubt as to whether a particular course is "professional" or not will consult the committee.)

Degree

The degree granted on the completion of the course is Bachelor of Arts (Course in Humanities).

Committee in Charge

Professors Fish (Chairman), Dodge, Guyer, Kiekhofer, Sharp, Slaughter.

COURSE IN JOURNALISM

WILLARD G. BLEYER, DIRECTOR, PROFESSOR OF JOURNALISM.

Purpose and Plan of the Course

The studies included in the Course in Journalism are of two kinds: (1) Those designed to familiarize the student with present social, political, and economic conditions in the light of their origin and development, as well as with the literature of his own and other languages; (2) those intended to give the necessary instruction in the methods of journalism and advertising. The course of study has been arranged in the belief that the greater part of the time should be devoted to a study of the subjects of the first group, such as history, political science, economics, sociology, philosophy, psychology, language, and literature which are fundamental to journalistic work.

The technical work includes courses in reporting, editing, the writing of special feature articles, editorial writing, the country newspaper, the history and principles of journalism, advertising, and newspaper administration. Courses are offered in the methods of retail advertising, national advertising campaigns, and the writing of advertising booklets. Representative French newspapers are studied in a special course for journalism students, given by the Romance Languages Department. Courses in cartooning and in drawing for illustrations are offered by the Department of Industrial Arts. Instruction is also given in the law of the press, including the law of copyright, literary property, libel, privileged publication, and other topics relating to the publication of books and newspapers.

Special lectures on various phases of journalistic work are given by newspaper men in active service.

Additional information is given in the bulletin, "Course in Journalism, 1922-23," which may be had on application to the Director.

Advertising

Students can secure special training in preparation for advertising positions by combining courses in journalism with those in advertising. The normal arrangement of these courses during the four years is as follows: Freshman year, General Survey of Journalism; Sophomore year, Reporting and Correspondence; Junior year, Editing, the Writing of Special Feature Articles and Commercial Correspondence; Senior year, History and Principles of Journalism, The Writing of Advertising Booklets, Retail Advertising, Advertising Campaigns, and the Law of the Press.

Technical and Trade Journalism

Although the Course in Journalism has been arranged primarily for those preparing for newspaper and magazine work, provision has also been made for those interested in technical and class journalism. The courses in newspaper and magazine work may be elected by students in the professional schools and courses. Subject to the provisions governing the election of studies in other colleges (see page 129), students in the Course in Journalism may elect courses in the College of Engineering, the Law School, and in the College of Agriculture. By combining studies in commerce, agriculture, engineering and other technical subjects with those outlined in the Course of Journalism, students can obtain the necessary preparation for practically all lines of technical and trade journalism.

Agricultural Journalism

Courses in agriculture and agricultural journalism given in the College of Agriculture can be combined with those in the Course in Journalism by students who desire special training in preparation for positions on farm journals.

The normal arrangement of courses in journalism for students in the Colleges of Letters and Science and Agriculture who are preparing for agricultural journalism is as follows: Freshman year, General Survey of Journalism; Sophomore year, Reporting and Correspondence; Junior year, Editing, and the Writing of Special Feature Articles; Senior year, Principles of Journalism, Editorial Writing, Agricultural Journalism 1 and 4, Advertising (Economics 15 and 16), The Law of the Press.

Laboratory Equipment

A newspaper office with typewriters, files, indexes, and reference books is maintained as a laboratory for the students of journalism. Index and filing cases show methods of preserving photographs, illustrations, clippings, and biographical and statistical material.

In a printing laboratory especially equipped for the purpose, students are given practical training in the principles of typography in connection with the courses in editing, advertising, and newspaper administration.

A reading room adjoining the journalism laboratory is provided with files of the leading newspapers of the country, as well as of important American and English journalistic periodicals.

Practical Experience

Students in the Course in Journalism are given practical training on the two Madison daily newspapers, the editors of which cooperate with the instructors in journalism for this purpose. Places on the editorial and the business staffs of student publications are awarded for the most part on a basis of literary and executive ability, and are open to all students. The *Daily Cardinal*, published as a morning newspaper in one of the Madison newspaper offices, is edited by a staff organized from the students interested in journalism, who thus get practice in all the details of newspaper making. The *Wisconsin Literary Magazine*, a monthly devoted to special articles, short stories, verse, and essays; the *Octopus*, a humorous periodical, and the *Badger*, the university annual, edited and published by the members of the junior class, all give opportunity for a variety of experience in journalism. The *Wisconsin Engineer*, a monthly edited and published by the students of the College of Engineering; the *Wisconsin Country Magazine*, a monthly edited and managed by the agricultural students; and the *Commerce Magazine*, a monthly issued by the University Commerce Club, furnish practice for those interested in technical and trade journalism.

General Requirements

Students will be admitted to the Course in Journalism on compliance with the conditions imposed for entrance to the College of Letters and Science. (See p. 107.)

The requirement for graduation from the Course in Journalism is 120 credits, the number required for the degree of bachelor of arts in the College of Letters and Science. (See p. 127.) The 120 credits must include, in addition to a thesis, not less than 24 credits in the Department of Journalism.

Arrangement of Courses

The Course in Journalism consists of both required and elective courses. The required courses include three groups: (1) Those studies required of all students in the College of Letters and Science who are candidates for the degree of bachelor of arts, such as Freshman English, history, foreign language, and science or mathematics; (2) those that are prerequisite for advanced work in the fields with which journalism is especially concerned, such as the general survey of English literature, American history, elementary economics, elementary law, and government and politics in the United States; (3) those that give the necessary technical instruction and practice in journalism, including those in advertising and the law of the press. The required courses in journalism are Newspaper Reporting (Journalism 2), 6 credits; Editing (Journalism 3), 6 credits; History and Principles of Journalism (Journalism 110), 6 credits; and either Editorial Writing (Journalism 104), 4 credits, or The Writing of Special Feature Articles (Journalism 105), 4 credits.

The elective studies include those courses in history, political science, economics, literature, and philosophy that are essential for the best type of journalism.

The following list contains the required and elective courses arranged under the four years in the order in which they should normally be taken. Arabic figures indicate the credits; Roman numerals show the semester in which the course is given.

Freshman Year

General Survey of Journalism, 0; Freshman English, 3; Foreign Language, 4; English History, 3; Medieval History, 3; Mathematics, 3 or Science, 5.

Sophomore Year

Newspaper Reporting and Correspondence, 3; Introduction to the Study of Literature, 3; General Survey of English Literature, 3; History of the United States, 3; Elements of Economics, 4, I, II; Elements of Money and Banking, 3; Foreign Language, 4; Free Hand and Applied Drawing, 3.

Junior Year

Newspaper Editing, 3; Writing of Special Feature Articles, 2; French Journalism, 2; Commercial Correspondence, 2, II; Law of the Press, 2, II; American Literature, 2; Argumentation (Public Speaking 3a), 3, I; Modern European History, 3; The British Empire, 2; Elementary Law, 3, I; Government and Politics in the United States, 2, II; International Law, 2; Party Government, 3, I; Poverty and Relief, 3, II; Labor Problems, 2, II; Social Psychology, 3, I; Statistics, 3, I; Problems of Taxation, 2, II; History of New England, 3, II; Psychology, 3, I; Ethics, 3, II; Introduction to Philosophy 3, II; Logic, 2, II.

Senior Year

Editorial Writing, 2; History and Principles of Journalism, 3; The Country Newspaper, 2, I; Newspaper Administration, 2, II; Retail Advertising, 2, I; Thesis, 2; Current Political Topics, 2; History of the West, 3; Nineteenth Century Europe, 3, II; Diplomatic History of the United States, 2; Recent History of the United States, 3; Transportation and Communication, 3, II; Financial History of the United States, 3, I; The Money Market, 3, I; Industrial Evolution and Its Problems, 2, I; Administrative Problems, 2, I; I, II; Theory and Practice of Legislation, 3; Municipal Functions, 2, II; Municipal Government in Europe and the United States, 3, II; Contemporary International Politics, 2, I; Social, Political, and Business Ethics, 2; Philosophic Thought in Nineteenth Century English Literature, 2, II; History of Modern Philosophy, 3, II; Contemporary Drama, 2; Contemporary Novel, 2; Victorian Prose Writers, 2; The Victorian Era, 3.

COURSE IN PHARMACY

EDWARD KREMERS, DIRECTOR, PROFESSOR OF PHARMACEUTICAL CHEMISTRY.

Object of the Course

The prime object of the Course in Pharmacy is to furnish a thoroughly scientific foundation for the pursuit of the profession of pharmacy. The elements of the fundamental natural sciences, chemistry, botany, and physics, must first be studied before their application to pharmacy can rationally be considered. This is as true for pharmacy as for any other applied science or art. In pursuing these general studies the pharmacy students have the advantage of close association with students from other courses. The University does not demand practical experience for admis-

sion to the courses in pharmacy, but desires such preparation as will best fit for college or university work.

The general study of these fundamental sciences is followed by more or less specialized courses. General chemistry, inorganic and organic, qualitative and quantitative analysis, are followed by pharmaceutical chemistry, and applied chemical analysis; general botany by vegetable histology and anatomy of drugs; general physics by pharmaceutical technique. These somewhat specialized studies, in turn, not only lay the foundation for the study of the more strictly applied courses in practical pharmacy and pharmacognosy, but also prepare the student for thesis work.

The student who can spend only two years at the University is compelled to take up the more technical studies of his course before he has laid a satisfactory foundation. Such a compromise is outlined under the caption, Courses of Study. The three-year student, as a rule, finds time to pursue studies other than those outlined above, e. g., physiology, bacteriology, etc. The four-year student has the great advantage of supplementing his high school preparation during the freshman and sophomore years by acquiring a reading knowledge of French and German, and by the study of university mathematics, all of which studies are of the greatest importance when the more advanced work of the natural sciences is taken up during the junior and senior years.

Special attention is called to the Four-year Course offered to graduates of accredited high schools. This course was created in order to accommodate those students who desire to obtain a general scientific education and to include in their course the pharmaceutical studies, and with the hope of stimulating a broader pharmaceutical education. For the more applied courses special laboratories have been equipped.

Like the sister profession, medicine, pharmacy is in need, not only of the general practitioner, but also of the specialist. For the preparation necessary to equip such specialists the University offers graduate courses. Graduates who desire to prepare themselves as chemists for manufacturing establishments, as analytical, food or sanitary chemists, or as bacteriologists, will find that the graduate work in the Course in Pharmacy, as well as the other departments of the University, offers excellent opportunities for advanced and more specialized study. Special lines of research can also be pursued in various departments by those who desire to work for a higher degree. The attention of

advanced students is especially called to the graduate work. (See Index.)

Laboratories

The pharmaceutical laboratories are located on the third and fourth floors of the Chemistry Building. On the third floor, they consist of a dispensary, a laboratory for analytical purposes, and a laboratory for general pharmaceutical chemistry; on the fourth floor, of a milling room and laboratories for extraction and distilling purposes equipped with steam and vacuum apparatus. The work of these laboratories is carefully coordinated and culminates in the prescription work of the dispensary.

Adam Conrath Memorial Fund

In 1912 the Wisconsin graduates of the Philadelphia College of Pharmacy gave $75 to the University to establish the Adam Conrath Memorial Fund. This sum is to be added to from time to time until the amount reaches $250. The income is then to be used to maintain a set of the *American Journal of Pharmacy* in the University.

Terms of Admission

The requirements for admission to the several colleges of the University are described on pages 107ff.

Degrees

The first degrees given in pharmacy are those of graduate in pharmacy upon completion of the two-year course, and of bachelor of science, pharmacy course, conferred upon candidates who have successfully met the requirements of the four-year course.

The degree of master of science and doctor of philosophy are conferred as higher degrees upon candidates who have a baccalaureate degree.

Fees and Expenses

See pp. 80ff.

Outline of Two-Year Course

First Year

First Semester	Credits	Second Semester	Credits
Botany 1	5	Botany 130	4
Pharmacognosy 10	1	Chemistry 1	5
Chemistry 1	5	Chemistry 11	2½
Pharmacy 1	3	Chemistry 17	2½
Pharmacy 20	3	Pharmacy 1	3
Pharmacy 40	1	Pharmacy 40	1
Total	18	Total	18

Second Year

Chemistry 20	4	Chemistry 27	5
Chemistry 26	4	Chemistry 40	3
Chemistry 40	3	Botany 111	3
Botany 110	3	Pharmacognosy 20	2
Pharmacognosy 20	2	Pharmacy 30	4
Pharmacy 121	2	Chemistry 45	1
Pharmacy 50	1	Pharmacy 50	1
Thesis	2	Thesis	2
Total	21	Total	21

For detailed information as to the foregoing courses see the announcements of the several departments of the College of Letters and Science.

Three-Year Course

In harmony with a resolution adopted by the American Conference of Pharmaceutical Faculties, of which this school is a member, beginning with the college year 1925-1926 the two-year pharmacy course will be discontinued and a three-year course will take its place.

Students who desire to include pharmaceutical studies as a part of their general college education elect the prerequisite studies enumerated below. Such a course, if to lead to the degree of bachelor of science, pharmacy course, must include courses 1, 20, 30, 40, 50 and 121 in Pharmacy, and course 20 in Pharmacognosy or their equivalents.

Basal sciences: Chemistry 1, 11, 20, 17 or their equivalents; Botany 1 and 130 or their equivalents; Physics 1. These should be taken during the first and second years.

Advanced sciences: Chemistry 26, 27 and 40; Botany 110 and 111. These courses should be taken during the third year in order that the courses in pharmacy and pharmacognosy mentioned above may be taken during the fourth year.

The language requirements of this course are English 1a and 1b, French 1a and 1b, and German 2a and 2b, or their equivalents, which should be taken during the first and second years.

The major study and thesis may be taken in chemistry, botany, pharmacy, or any department in which the student is sufficiently prepared to do such work. For the rules governing the major study and thesis, see Index under Major Study.

Additional electives sufficient to make 120 unit-hours may be chosen upon consultation with the advisor for pharmacy students. One hundred twenty grade points are also required for graduation.

Pharmaceutical Experiment Station

In accordance with an act passed by the legislature in 1913, a Pharmaceutical Experiment Station has been established in connection with the Department of Pharmacy. The object of the Station, as outlined by the law establishing it, is two-fold:

(1) To cooperate with the Bureau of Plant Industry of the Department of Agriculture in the maintenance of the northern station for the cultivation of medicinal plants and to disseminate such information as may lead to the proper cultivation of medicinal plants and the production of high grade vegetable drugs in this state; and

(2) To serve the public at large by cooperation with both pharmacists and physicians in securing for the sick the best medicines that pharmaceutical science and art can provide, and further by cooperation with the State Board of Pharmacy, the State Board of Health, and the Dairy and Food Commission, to bring about these results.

The staff of the Experiment Station is made up of members of the faculty of the Department of Pharmacy. In addition, the research fellows in pharmacy devote their entire time to the work of the Station. A garden of about forty acres for the scientific cultivation of medicinal plants and a laboratory for the investigation of problems connected with the preparation and testing of crude drugs, pharmaceutical preparations and chemicals are maintained.

Reports on the work of the Experiment Station are published from time to time and distributed to persons interested. For copies of these reports application should be made to the Director.

Wisconsin Pharmaceutical Research Fund

Recognizing the ever growing importance of research to the science and art of pharmacy, the Pharmaceutical Alumni of the University have established a fund, known as the Wisconsin Pharmaceutical Research Fund of the University of Wisconsin. The first contributions to the fund, amounting to $1,000, were presented in June, 1917, and accepted by the Regents in the name of the University. Since 1917, $1,000 have been presented each year. Half of the income of this fund may be devoted directly to phamaceutical research while the remainder goes to augment the principal.

Fellowships

The following fellowships are available in Pharmacy: Fritzsche Brothers, Hollister, Newport Chemical Works, Newport Turpentine and Rosin Company, and the American Pharmaceutical Association Research Award.

For detailed information in regard to these, see pp. 407ff.

LIBRARY SCHOOL

C. B. LESTER, DIRECTOR; MARY EMOGENE HAZELTINE, PRECEPTOR.

The purpose of the School is to provide a course of study that shall fit its students to become well-rounded library workers. While the course of instruction is necessarily devoted largely to a study of library technique and library administration, the broader educational and literary features of the profession are also strongly emphasized. The course of instruction includes the fundamental principles of library work in all of its branches, developed along practical lines. The students of the School have exceptional opportunities to come into contact with actual rather than theoretical problems, and to work these problems out to practical solution.

The closest relation of the student with actual conditions comes during the eight weeks of field practice apportioned to each. During this field work the student has an opportunity of coming into contact with the traveling library system, study clubs, legislative reference library, cooperation of libraries with schools, publicity methods, book selection, organization of new libraries, reorgan-

ization of old ones, the conduct of library institutes, and other lines of activity incident to library commission work. Thus there is presented to the student not only the concrete problem, but with it the practical solution.

Location and Equipment

The school is located on the second floor of the Madison Free Library building, North Carroll street, near the business center of the city.

The technical library of the School comprises 7,000 volumes of general reference works, subject and trade bibliographies, books for illustration in presenting the different courses of study and for practice in working out the lessons that are set, all necessary professional literature, and a considerable and thoroughly representative collection of children's books. There are also upon the shelves thousands of printed blanks and forms, and library plans from various parts of the country, all illustrating different methods of administration; also complete up-to-date files of reports, bulletins, and miscellaneous publications of the leading libraries of the country.

Entrance Requirements

Each candidate for admission to the School must fill out an application blank, a copy of which, together with a special catalogue of the School, may be obtained by addressing the Preceptor, Miss Mary Emogene Hazeltine, Wisconsin Library School, Madison, Wis. Students will be admitted only at the beginning of the first semester.

Applicants are required to take the entrance examinations, which are held on the second Friday in June of each year. These examinations presuppose as a minimum a high school education or its equivalent, and are designed to test the education, reading, and general information of the applicant, especially in history, general literature, and current information. Sight translation from one modern language is also included. Specimen questions are included in the special catalogue of the School.

Applicants holding a degree from an approved college are not required to take the written examination but must meet all other entrance requirements described under prerequisites below.

Suggested Preliminary Preparation

Undergraduates in college who are planning to enter Library School on the completion of their college work are advised to select courses from the following groups:

English literature, especially survey courses in English and American literature, and courses dealing with such literary types as the novel, the drama, and the short story, not only in English but in modern languages.

Modern languages, French, German or Spanish.

Mediaeval and modern European history, history of England and of the United States, including recent periods.

Economics, political science, and sociology.

Psychology, philosophy, and pedagogy.

Science, one or more of the following: botany, geology, zoology, physics, chemistry.

Public speaking.

Prerequisites

Accepted candidates must meet several special entrance requirements before joining the classes in the fall. All who have not had experience in library work must spend at least one month in actual work in a designated library *before the school opens in September.* Candidates must be skillful with the typewriter before entering, as the School requires its use in the preparation of many of the lessons, and no instruction is given in the School. It is also required that the standard "library handwriting" be mastered. Accompanying the application blank is a required list of books to be read in preparation for the first recitation of the school year in book selection.

See pp. 80ff.

See pp. 00ff.

Students needing financial assistance may avail themselves of the loan fund provided by the alumni of the School.

Course of Instruction

The instruction in general library science may be taken in two ways:

(a) As an independent library course of one year, by all who

meet the entrance requirements of the School. The certificate of the Library School is given to those who satisfactorily complete this course.

(b) As a joint course by students in the College of Letters and Science who have qualified for entrance. The work of the Library Course is accepted for 10 college credits if completed before the beginning of the junior year, and for 20 college credits if completed after the beginning of the junior year. Of the 20 credits of Library School work accepted by the University four may be counted toward an English major, if the candidate chooses that subject. This joint course leads to the degree of Bachelor of Arts from the University, and to the certificate of the Library School.

The satisfaction of the requirements for both the degree and the certificate, under this plan, will normally involve residence at the University for four years and one summer session.

Course of Study

First Semester	Credits	Second Semester	Credits
Cataloguing	5	Reference	2
Classification	3	Library Economy	2
Reference	2	Subject Bibliography	3
Evaluation and Selection of Books	2	Evaluation and Selection of Books	2
Trade Bibliography and Book-buying and Ordering	1	Children's Literature	1
Loan Administration	1	Administration	1
Library Economy	1	Documents	1
		Field Practice	3
Total	15	Total	15

The thesis for joint course students will be under the direction of the university department in which the student chooses his major subject, and the bibliography included in it will be accepted by the Library School in satisfaction of its bibliography requirement.

Legislative Reference Course

In cooperation with the Legislative Reference Department of the Wisconsin Free Library Commission, the Library School also offers a special course of training for legislative and municipal reference work and the various sociological phases of library service. The course is intended for college graduates with special aptitude and personal qualifications for this type of library serv-

ice who have a definite preparation in political science, economics, and sociology.

The instruction in legislative reference work includes bibliographic and technical library studies and research.

The regular library school work is supplemented by special instruction as to the methods and materials of special libraries, combined with actual practice in the legislative reference library and elsewhere. The research is upon actual problems arising in the various departments of state and municipal government.

Course for Teacher-Librarians

For detailed statement of this course, see p. 176.

THE SCHOOL OF EDUCATION

V. A. C. HENMON, DIRECTOR, PROFESSOR OF EDUCATION.

General Statement

In June, 1919, the Board of Regents authorized the establishment of a School of Education within the College of Letters and Science. The school is an outgrowth of the Course for the Training of Teachers established in 1908. The faculty consists of (1) members of the Department of Education, (2) instructors in charge of departmental teachers courses and other courses required for the University Teachers Certificate, (3) an additional representative from each department offering departmental teachers courses, and (4) teachers in the Wisconsin High School.

The school provides professional preparation for teachers of general high school subjects, principals, superintendents and supervisors, teachers of agriculture, home economics, manual and industrial arts, and physical education, playground and recreation supervisors, and high school librarians. This preparation rests upon a basis of sound general education and consists of the following parts: (1) special academic instruction in the subjects to be taught; (2) professional training by means of (a) departmental teachers courses, (b) courses in education and psychology, (c) educational practice, including observation of teaching under supervision, in the Wisconsin High School and in the Madison public schools, and the activities involved in the work of directed teaching as carried on in the Wisconsin High School.

Graduate courses in the various fields of education and opportunity for investigation and research are offered for teachers, administrators and supervisors who recognize the desirability of graduate study in addition to the four years of college work, and for those who are preparing to become teachers of education in county training schools, normal schools, and colleges.

Admission and Registration

(1) The completion of the first two years of college work in a college of the University, or its equivalent from other institutions, is required for regular admission and registration.

(a) Students who are candidates for the University Teachers Certificate must, in addition to the usual registration in one of the colleges, register in the School of Education at the beginning of the junior year.

(b) Each registrant must indicate, for the joint approval of the instructor in charge of a departmental teachers course and the Director of the School of Education, the subject or subjects, preparation for the teaching of which is contemplated. In no case will more than three related subjects be approved (a major subject; a major and one minor subject; a major and two minor subjects).

(2) Students electing a teaching major in agriculture, in home economics, in industrial education or applied arts, or in physical education may be admitted and registered in the School of Education in their freshman and sophomore years.

Students who expect to complete the requirements of the School of Education and secure the University Teachers Certificate should report, at the beginning of the junior year, to the office of the Director of the School (Room 123, Bascom Hall) *immediately after the regular registration in the College of Letters and Science or the College of Agriculture.*

Advanced Standing

Graduates of normal schools and students from other colleges and universities are admitted with advanced standing under conditions set forth on pages 119ff. Transfer records from such institutions, together with records of high school work on blank forms provided by the University, should be submitted to the Committee on Advanced Standing in advance of the opening of the University.

Degrees

The School of Education forms administratively a part of the College of Letters and Science. Registrants in the School of Education retain their registrations in the College of Letters and Science, or, in the case of those qualifying to teach agriculture or home economics, in the College of Agriculture, and receive upon graduation the degree to which their entrance credits and college credits entitle them. In addition, upon fulfilling the requirements outlined below, they receive the University Teachers Certificate.

Students who complete the requirements of either of the four-year courses in industrial education or applied arts receive the degrees of Bachelor of Science (Industrial Education), or Bachelor of Science (Applied Arts), and those who complete the four-year course in physical education receive the degree of Bachelor of Science (Physical Education).

Requirements for Graduation from the School of Education and for the University Teachers Certificate

Graduation from the School of Education and the recommendation for the University Teachers Certificate is based upon the following conditions and requirements:

I. A total of 124 credits exclusive of physical training and military drill.

II. The satisfactory fulfillment of the requirements of preparation for teaching of either:

1. (a) a major subject, or
   (b) a major subject and one minor subject, or
   (c) a major subject and two minor subjects.

   To fulfill the requirements of preparation for teaching the selected major a student must present credits in amount and kind as prescribed by the department of such major subject. This departmental prescription must in all cases include at least twenty credits, and, in addition, credit for the departmental teachers course. (See departmental professional requirements, pp. 275ff., for the credit requirements prescribed by the different departments.)

   To fulfill the requirements of preparation for the teaching of the selected minor subject or subjects,

a student must present credits in amount and kind as prescribed by the department of such minor subjects. This departmental prescription must contain ten credits, exclusive of the departmental teachers course.

2. The completion of the special requirements of the courses in agriculture, home economics, industrial education and applied arts, and physical education.

III. The recommendation of the departments of the major and minor subjects, or of the responsible authorities of the special courses, as to fitness for teaching.

IV. The presentation of a certificate of physical health and fitness from the University Medical Examiner.

V. The completion of the following professional requirements:

Psychology (Philosophy 1)	3 credits
Educational Psychology (Education 41) *or* Mental Development (Education 11)	3 credits
Principles of Education (Education 31)	3 credits
Technique of Education (Education 90)	2 credits
Departmental Teachers Course	2 credits
Educational Practice (Education A)	2 credits
	15 credits

(a) The course in Psychology (three credits) shall be taken ordinarily in the sophomore year.

(b) The course in Educational Psychology or Mental Development, and Principles of Education shall be taken ordinarily in the junior year, and the remaining required courses in the senior year.

(c) The minimum of two credits in the departmental teachers' course of the major subject must be secured by all students. The requirements of two additional credits for the departmental teachers course in the major and two credits for the departmental teachers courses in the minor subject are at the option of the department. Only two of the credits earned in the departmental teachers courses of the major subject shall be included in the maximum of forty credits allowed for a major toward a bachelor's degree.

(d) Credit for Education A (Educational Practice) may be acquired during the first or the second semester of the senior year.

VI. Graduates of the professional courses in the State Normal Schools who register in the School of Education as candidates for the University Teachers Certificate must present a minimum of six credits in advanced university courses in education, together with the departmental teachers course in their major. Under exceptional circumstances another course may be substituted for the departmental teachers course.

VII. Graduates of the Long Course in Agriculture, graduates receiving the B. S. degree in Home Economics, graduates of the Middle Course in Agriculture, and students satisfactorily completing the two-year course for Supervisors of Music, who have complied with the regulations relative to registration, and to approval of major and minor subjects, will be entitled to receive certificates upon fulfillment of the special professional requirements indicated below: Agriculture, p. 283, Home Economics, p. 285; Music, p. 279.

State Teachers License

Upon fulfillment of the foregoing requirements a student will be recommended by the Director of the School to the President of the University, to receive the certified statement prescribed by section 458b—2 of the Laws of Wisconsin, as amended by chapter 514, Laws of 1913. This certified statement, indicating the subject or subjects, the requirements for the teaching of which have been fulfilled, when presented to the State Superintendent, entitles the holder to receive a license to teach for one year in any public school in Wisconsin. Graduates who have received the University Certificate and who present satisfactory evidence of good moral character and two years of successful teaching after graduation are entitled to receive from the State Superintendent an unlimited state certificate.

It may be noted that the requirements for the University Teachers Certificate are in advance of the minimum fixed by law for a license to teach. The legal professional requirement is twelve hours in psychology and education. However, attention is called to the fact that the minimum requirement of the North Central Association is eleven hours in education. Information concerning the provisions of the law may be obtained from the

office of the State Superintendent of Public Instruction, or from the office of the Director of the School of Education.

Wisconsin High School

The Wisconsin High School, a six-year secondary school, was opened in September, 1911, and is maintained by the University as an integral part of the School of Education. The primary purposes of this school are (a) the exemplification of sound educational theory and organization, with special reference to secandary education, and (b) the provision of appropriate facilities for observation and directed teaching.

The details of the organization, program of studies, etc., of the Wisconsin High School will be found in the Bulletin of the School of Education.

Departmental Professional Requirements

Only such departments and courses of instruction are here indicated as are immediately related to the professional work of the School of Education. The announcements of the several departments and colleges of the University should be consulted for more extended and detailed information regarding the courses of instruction open to students who intend to teach.

Agriculture

See pp. 283ff.

Botany

Students preparing to teach botany, either as a major or a minor subject, are advised to elect courses in both structural and physiological botany, and also those that involve field work.

Major. A minimum of twenty credits from the following courses: Botany 1, 2, 90, 103, 104, 105, 106, 110, 129, 130, 146, 147, 150.

Minor. A minimum of ten credits in addition to course 90, selected from the following courses: Botany 1, 2, 103, 104, 105, 106, 110, 129, 130, 146. Attention is called to courses 1 and 2, which together constitute a year's work and are especially adapted to the needs of those taking a teachers minor in botany.

Departmental Teachers Course. Botany 90. The Teaching of Botany. II; 2 cr. Mr. Gilbert.

Chemistry

Major. A minimum of thirty credits, including courses 1, 120 (first semester), 11 (at least five credits), and 130 (five credits).

Minor. A minimum of ten credits.

Departmental Teachers Course. Chemistry 90. The Teaching of Chemistry. II; 2 cr. Prerequisite: major requirements above indicated. Course 11 may be taken simultaneously. Mr. Walton.

Commerce

The Course in Commerce affords certain facilities for those students who wish to prepare themselves to teach commercial subjects in secondary schools. Such students are advised to consult with the director of the Course in Commerce in the arrangement of elective work. Special facilities for pedagogical practice will be given such students in connection with the accounting laboratories, and work in addition to that prescribed may be arranged in subjects of especial importance to teachers.

Drawing

See Industrial Education and Applied Arts.

Economics

Major. A minimum of thirty selected credits including the thesis.

Departmental Teachers Course. The Department of Economics does not offer a regular departmental teachers course, but will accept a teachers course in a related subject, such as history.

Education

For general information concerning the equipment, and the courses offered in education, see pp. 171ff. For detailed information relative to the special requirements of courses in education for the University Teachers Certificate see p. 272.

English

Major. A minimum of twenty-eight credits, in addition to the thesis, and exclusive of courses 1a and 1b (required of all stu-

dents). The twenty-eight credits must include courses 30 or 33, 90a, 90b, 120a or 123, and one course from each of the following groups: 36 or 137; 34, 35, or 40. A total of thirty-six credits, in addition to the thesis and courses 1a and 1b, may be taken. Students who have had an adequate training in Latin or Greek (usually six years of Latin or four of Greek) may substitute some other English course for 120a or 123.

Minor. A minimum, in addition to courses 1a and 1b (required of all students), including courses 30 or 33, 90a, and an advanced composition course in the sophomore or junior year (2, 3a and 3b, 5, or 6), and one of the following groups: (a) 34 and 35; (b) 36 or 137; (c) 40.

Departmental Teachers Courses. English 90a. The Teaching of English. I; 2 cr. Mr. Leonard.

English 90b. The Teaching of English. II; 2 cr. Mr. Leonard.

French

See Romance Languages.

Geology

See Physiography and Geography.

German

Major. A minimum of twenty-four credits in advance of course 1b. In addition to the thesis, these twenty-four credits must include courses 10 or 112, 90a, 90b, 130 or 131, 150 and 151. For the maximum number of credits that may be elected see p. 188.

Minor. A minimum of courses 10 or 112, 90a, and at least four credits in literature from courses 21 to 28, 130 or 131, i. e. fourteen credits beyond course 2b.

Departmental Teachers Courses. German 90a. The Teaching of German. Methods. For seniors and graduates. I; 2 cr. Mr. Morgan.

German 90b. The Teaching of German. Phonetics. For seniors and graduates. II; 2 cr. Mr. Morgan.

Students who are preparing to teach German as their major or minor subject and have done a considerable amount of work elsewhere, or who have had successful teaching experience, may be excused, by action of the department, from some of the re-

quired work. Such excuse will generally be granted only on the basis of an examination, and in no case will students be recommended by the department unless they have taken at least four credits of work in the department.

Greek

Major. A minimum of twenty-four credits (not including course 1).

Minor. A minimum of courses 10, 11 and 20.

Departmental Teachers Course. The Department of Greek does not offer a regular departmental teachers course. Latin 90 is recommended to candidates who desire to teach Greek.

History

Major. A minimum of thirty credits, of which at least sixteen must be in advanced courses and thesis, and in addition course 90.

Minor. A minimum of sixteen credits in addition to course 91. These sixteen credits must include at least four in advanced courses.

Departmental Teachers Course. History 90. The Teaching of History. I or II; 2 cr. Mr. Chase.

History 91. Supplementary Reading for High School Teachers of History. II; 2 cr. Mr. Chase.

Home Economics

See pp. 285ff.

Industrial Education and Applied Arts

See pp. 287ff.

Latin

Major. A minimum of twenty-four credits, including courses 107, 90, and one advanced reading course for one year.

Minor. A minimum of twenty credits, including course 90 and one advanced reading course for one year.

Departmental Teachers Courses. Latin 90. The Teaching of Latin. I (required); 2 cr. Miss Sabin.

Latin 190. Advanced Course in the Teaching of Latin. The background of high school Latin adapted to the needs of the classroom. II (elective); 2 cr. Miss Sabin.

Library Science

The Library School offers for those who are qualifying themselves for positions as high school librarians the following course:

Library Science for Teachers. Yr.; 4 cr. The object of the course is to qualify those taking it to assume, in connection with instructional duties, the supervision of high school libraries, and to give instruction to high school students in the use of books and libraries and in the means and methods of developing good habits and right tastes in reading. Open only to juniors and seniors. Miss Hazeltine, Miss Turvill, Mrs. Davis, and other members of the staff of the Library School.

Mathematics

Major. (a) A minimum of 21 credits from courses 5 and 6, and 112, or 113, and other courses numbered 100 or above; (b) course 90b is open to those who offer mathematics as a major, and is recommended as a desirable course for the junior year; (c) a knowledge of solid geometry obtained in the secondary school or elsewhere.

Minor. The minimum requirements consist of courses 1, 2, 3, (or 4); or courses 51, 52; and course 90. It is understood that not fewer than six credits in mathematics (in addition to the credits for course 90) shall be earned in residence at the University of Wisconsin with a grade not lower than good. A knowledge of solid geometry acquired in college or elsewhere is expected. It is strongly recommended that students who expect to teach mathematics take a course in the calculus.

Departmental Teachers Courses. Mathematics 90a. The Teaching of Mathematics. I; 2 cr. Mr. Hart.

Mathematics 90b. The Content of Secondary Mathematics. II; 2 cr. Mr. Hart.

Music

While the completion of the four-year course leading to the degree of Bachelor of Music, with a major in Public School Music gives the broadest training for the constantly enlarging field of

this branch of teaching, students satisfactorily completing the Two-Year Course for Supervisors of Music will be entitled to a recommendation to the State Board of Examiners to receive a special state license to teach music in the public schools of the state. This recommendation will be issued by the Director of the School of Education, provided (a) that the student registers in the School of Education at the beginning of the first year of residence; (b) that the student has earned special credits as follows: psychology (Philosophy 1), 3 cr.; Education 6, 11, 31, 41, or 90, 3 cr.; (c) that the student presents a statement from the Director of the School of Music as to general fitness for teaching.

Philosophy

The following course must be completed by all students fulfilling the requirements of the School of Education.

Philosophy 1 (psychology). Introductory course. I or II; 3 cr. Sections 2, 3, and 4 of this course have been designated as satisfying the requirements for the University Teachers Certificate.

Physical Education

See pp. 291ff.

Physics

Major. A minimum of twenty credits in approved courses in addition to the University requirement of four credits for the thesis.

Minor. A minimum of ten credits in approved courses.

Departmental Teachers Course. Physics 90. The Teaching of Physics. II; 2 cr. Mr. Steve.

Physiography and Geography

Major. A minimum of thirty credits in approved courses in the Department of Geography including course 90.

Minor. A minimum of twelve credits made up of course 4(ten credits) and course 90 (two credits).

Departmental Teachers Course. Geography 90. The Teaching of High School Geography. II; 2 cr. Miss Loft.

Physiology

The Department of Physiology outlines the following as the preparation for teaching human physiology.

Major. A minimum of twenty-three credits as follows: three credits in the Department of Physiological Chemistry; six credits in the Departments of Anatomy or Zoology as may be approved by the Department of Physiology; eleven credits in the Department of Physiology including thesis; three credits in any department of the Medical School as may be approved by the Department of Physiology.

In order to fulfill these requirements, courses in Physics 1, Chemistry 1, and Biology 1 should be completed before the beginning of the junior year.

Minor. A minimum of eleven credits in the following courses: Physiology 1 and 2, 4 cr.; Hygiene 1, 2 cr.; either Bacteriology 1 or 4, 5 cr. General chemistry is strongly advised before taking physiology or bacteriology.

Minor. Special requirements for home economics students: Physiology, 3 cr.; Hygiene, 2 cr.; Bacteriology, 5 cr.

Romance Languages

FRENCH

Major. A minimum of twenty credits in advance of second-year French. The following courses are required: 90, 190, four credits in composition and conversation, and at least six credits in French literature.

Minor. A minimum of twelve credits in advance of second-year French. At least two credits in composition and conversation and at least three credits in some general course in French literature must be taken.

Departmental Teachers Courses. French 90. Theory and Practice of Teaching. I or II; 2 cr. Miss Gay, Miss Johnson.

French 190. Pronunciation and Phonetics. I or II; 2 cr. Mrs. Greenleaf.

SPANISH

Major. A minimum of twenty-two credits in advance of Spanish 1. The following courses are required: at least two credits in composition or conversation and the teachers course (French 90).

Minor. A minimum of ten credits in advance of second-year Spanish. At least two credits in composition and conversation must be included.

Departmental Teachers Courses. See French 90 above.

Speech

Major. A minimum of twenty credits in addition to the thesis and courses 190a and 190b.

Minor. A minimum of sixteen credits in approved courses.

Departmental Teachers Courses. Speech 190a. Seminary in Teachers Problems. (Open only to graduates and senior major and minor students in speech.) I; 2 cr. Mr. Weaver and staff.

Speech 190b. Seminary in Teachers Problems. (Open only to graduates and senior major and minor students in speech.) II; 2 cr. Mr. Weaver and staff.

Zoology

Major. A minimum of twenty credits from the following courses: Zoology 1a, 1b, 9, 102, 104a, 105, 111, 119. In special cases other courses may be substituted by permission of the chairman of the department.

Minor. A minimum of ten credits from the following courses: Zoology 1a, 1b, 9, 102, 104a. Attention is called to courses 1a and 1b which together constitute a year's work and are especially adapted to the needs of those taking a minor in zoology.

Departmental Teachers Course. Zoology 90. The Teaching of Zoology. I; 2 cr. Miss Weber.

General Science

Departmental Teachers Course. Education 95. The Teaching of General Science. II; 2 cr. Mr. Davis.

Courses for Teachers of Special Subjects

The University of Wisconsin has for many years provided technical and professional training for teachers of special subjects such as agriculture, home economics, physical education, and manual, industrial and applied arts.

The courses in agriculture and in home economics are given in the College of Agriculture. Students who are planning to

teach these subjects, and to qualify for the University Teachers Certificate, should register in the School of Education at the beginning of the junior year. Detailed information concerning all the courses offered can be found in the University catalogue or in the special bulletins of the College of Agriculture.

The courses in industrial education and applied arts and in physical education are given in the School of Education of the College of Letters and Science.

AGRICULTURE

Major: Students in the College of Agriculture who wish to prepare for teaching of agriculture in secondary schools must, in addition to a major, complete the general requirements as outlined on page 351, and fifteen credits in psychology, education, and agricultural education required for the University Teachers Certificate. The major may consist of a minimum of ten elective credits in any department of the College of Agriculture or the vocational teachers' major, in which the required technical subjects for the major are chosen in several departments instead of one department. These subjects are taken in connection with the teacher training subjects required for a University Teachers. Certificate. The advisers of students taking this major will be members of the department of agricultural education. Students should choose this major at the beginning of the junior year to obtain the best results.

Technical subjects to be taken in the vocational major, in addition to required subjects outlined on page 349, are as follows:

	Credits
Feeds and Feeding (Animal Husbandry 126)	3
Additional electives in Animal Husbandry*	2
Advanced Crop Judging (Agronomy 121)	2
Additional electives in Agronomy	3
Agricultural Engineering 13-14 (Carpentry and Forge)	2
Agricultural Engineering 13-14 (Drainage) *or* 3 (Power Machinery)	3
Poultry	2
Horticulture 1 (Fruit Growing) *or* 3 (Veg. Gardening)	3
	20

University Certificates. Two types of University Certificates are issued to graduates who receive the degree of B. S. (Agriculture): the University Teachers Certificate, entitling the holder to the general license issued by the State Superintendent, and a special University Certificate in Agriculture, leading to

the special license in agriculture issued by the State Superintendent. Students registered in the School of Education who fulfill the following requirements in education and receive the approval of the College, shall receive the University Teachers Certificate:

	Credits
Philosophy 1 (Psychology)	3
Education 41 (Educational Psych.) *or* Education 11 (Mental Development)	3
Agricultural Education 1(Rural Education)	3
Education 90 (Technique)	2
Departmental Teachers Course (A. H. 128 *or* Agron. 140)	2
Education A	2
	15

Registered and approved students who fulfill the following requirements in education shall be entitled to the Special Certifi cate only.

	Credits
Philosophy 1 (Psychology)	3
Agricultural Education 1 (Rural Education)	4
Education 90 (Technique)	2
Departmental Teachers Courses	
Animal Husbandry 128	2
Agronomy 140	2
Education A	2
	15

Graduates of the Middle Course in Agriculture, properly registered in the School of Education at the beginning of the second year, will be recommended by the Director of the School of Education to receive a special license to teach agriculture in the schools of Wisconsin, upon exhibiting evidence of personal fitness for teaching and upon the satisfactory completion of Education 90 for two credits, Agricultural Education 1 for four credits, Agronomy 140 for two credits, and Animal Husbandry 128 for two credits (a total of ten credits). Such persons are advised to select, when possible, electives from the group of technical subjects suggested under the Vocational Teachers Course.

Departmental Teachers Courses. Animal Husbandry 128. The Teaching of Animal Husbandry. I; 2 cr. Department of Animal Husbandry. Mr. James.

Agronomy 140. The Teaching of Plant Production. II; 2 cr. Department of Agronomy. Mr. Mortimer.

HOME ECONOMICS

The Department of Home Economics is connected with the College of Agriculture for administrative purposes and the faculty of this college gives instruction in certain subjects, such as food, chemistry, and bacteriology.

The faculties of the various other colleges, schools, and courses of the University give instruction in certain required and elective subjects offered to students taking the Course in Home Economics.

Courses are provided for various classes of students, including those who are preparing to teach home economics in secondary schools and in higher institutions, and those who are preparing to teach the vocation of home making in the vocational and continuation schools of the state.

Degree

The degree of Bachelor of Science (Home Economics) is conferred upon those who complete 120 credits, of which thirty-five to forty are in home economics. One hundred twenty grade points are required for graduation. (One hundred twenty-four credits are required for the University Teachers Certificate.)

General Course in Home Economics

See pp. 352ff.

Majors in Home Economics

Instead of taking the general course, at the beginning of the junior year, the student may choose a major in textiles, foods, hospital administration, applied bacteriology, or the vocational education major in home-making (Smith-Hughes). See pp. 353ff.

The requirements for a major in home economics are not less than twenty-five credits nor more than thirty credits in strictly home economics subjects, including the thesis, taken during the junior and senior years.

The outline of the work of the junior and senior years for the various majors is given on pp. 353ff and in the Home Economics departmental bulletin.

Requirements for the University Teachers Certificate, Home Economics

Major. In the general major, the food major, the textile major, or the vocational major, the minimum requirements in home economics subjects taken during the junior and senior years are twenty-five, four of which represent thesis credit. The special courses vary with the major, but not more than forty strictly home economics credits may be counted toward the 124 credits required for graduation. The following courses in psychology and education are required:

	Credits
Psychology (Philosophy 1)	3
Educational Psychology (Education 41) *or* Mental Development (Education 11) *or* Humanics (Home Economics) 109	3
Principles of Education (Education 31)	3
Technique of Education (Education 90)	2
Departmental Teachers Course	2
Educational Practice (Education A)	2
	15

Minor. A minimum of ten to twenty credits. A minor may be taken in foods, textiles, or housing problems.

(1) A teaching minor in foods includes the teachers course, in addition to Home Economics 1a, 3, 4, and such other related courses as to make fifteen to twenty credits in strictly home economics subjects.

(2) A teaching minor in textiles includes the teachers course, Home Economics 2, 5, 50, 11, and other courses in home economics to complete twenty credits.

(3) The housing minor is offered to students majoring in sociology in order that those intending to do social settlement work, or social welfare work, will have a broad foundation knowledge of the fundamental problems in housing. Home Economics 1a, 1b, 70, 74, and 123 may be elected in the minor.

Departmental Teachers Courses. Home Economics 121. The Teaching of Home Economics in High Schools. Prerequisite: a major or minor in home economics. 2 cr. Miss Dodge, Miss MacKinnon.

Home Economics 124. Vocational Education in Home Making. History and Methods. 2 cr. Miss Arbogast, Miss Marlatt.

INDUSTRIAL EDUCATION AND APPLIED ARTS

See Department of Industrial Education and Applied Arts, p. 198 for course descriptions.

Divisions

I. Manual and industrial arts.
II. Drawing, painting, design, commercial art, art-crafts.
III. Industrial education and administration.

Objectives in Instruction and Training

1. Avocational—appreciation through participation.
2. Vocational—
   a. Junior executives in trade and industry (Division of education and training).
   b. Teachers and supervisors of manual and industrial arts in public schools.
   c. Teachers, administrators, and coordinators in part-time or continuation schools.
   d. Commercial and industrial artists and designers.
   e. Teachers and supervisors of drawing, design, and crafts in public or private schools.

Courses of Study

I. Four Year Course in Industrial Education (Major in Industrial Education) Leading to the Degree of B. S. (Industrial Education)

Freshman

First Semester	Credits	Second Semester	Credits
English	3	English	3
History or Language	3–4	History or Language	3–4
Mathematics	3	Mathematics	3
Mechanical Drawing (Ind. Ed. 1)	3	Mechanical Drawing (Ind. Ed. 2)	3
Departmental	3	Departmental	3
Total	15–16	Total	15–16
Military Drill		Military Drill	
Physical Education		Physical Education	

Sophomore

First Semester	Credits	Second Semester	Credits
Mathematics (Analy. Geom.)	3	Descriptive Geometry	3
Physics or Chemistry	5	Physics or Chemistry	5
Freehand Drawing (Ind. Ed. 51)	3	Freehand Drawing (Ind. Ed. 52)	3
Departmental	3	Departmental	3
Elective		Elective	
Total	15–16	Total	15–16
Military Drill		Military Drill	
Physical Education		Physical Education	

Junior

Psychology (Philos. 1)	3	Education (Course 31)	3
Education (Course 11 or 41)	3	Departmental	9–10
Departmental	6–9	Elective	
Elective			
Total	15–16	Total	15–16

Senior

Education (Course 90)	2	Departmental	9–11
Educational Practice (Education A)	2	1 Thesis 2	
Departmental	7–9	Elective	
90. Psychology of Teaching Art and Industrial Subjects 2			
111. Organ. and special methods 2			
100. Thesis 2			
Elective			
Total	15–16	Total	15–16

Requirements for Graduation

124 credits; 124 grade points; departmental courses elected as advised below—minimum of 41 hours exclusive of mechanical and freehand drawing. Maximum of 62 hours exclusive of six credits for drawing either freehand or mechanical.

Departmental Electives for Course I, Indexed to Indicate Possibilities for Specialization

1. Mechanical Drawing and related technical work; 2. Woodwork and related technical work; 3. Metalwork and related technical work; 4. Printing and related technical work; 5. Ceramics; 6. Executive and supervisory.

The numbers after the subjects listed below refer to the appropriateness of that subject for accomplishing the specialization of the subject above which has a similar number. For example: One interested in mechanical drawing as a subject of specialization would consider, in determining his departmental electives, all courses listed below which have a figure (1) affixed. Before any given subject is placed on the study card, the student must examine the course description to be found in the catalog or in the time table, noting, first, whether the course is given the year he elects to take it, second, whether he has the necessary prerequisites.

First Semester Courses

4. Bench Woodwork 1, 2, 6
6. Wood Turning 2, 6
7. Foundry 1, 3, 6
8. Forge and Benchmetal 1, 3, 6
9. Machine Shop 1, 3, 6
11. Shop Planning and Installation 1, 2, 3, 5, 6
16. Elem. Pattern Making 1, 2, 6
20. Sheet Metal 1, 3, 6
21. Elect. Construction 1, 3, 6
24. Carpentry 1, 2, 6
62. Design 1, 2, 3, 4, 5, 6
70. Design Applied in Metal 3, 6
71. Design Applied in Clay 5, 6
111. Organ. and Special Method
    1. Woodwork and Related Tech. Subjects 1, 2, 5
    2. Metalwork and Related Tech. Subjects 1, 3, 5
117. Organ., Admin., and Special Methods for Trade and Related Technical Education-Corporation and Public Vocational Schools and Classes 1, 2, 3, 4, 5, 6
120. Job Analysis 1, 2, 3, 4, 5, 6
129. Organization and Special Method for the Continuation or Part-time School 1, 2, 3, 4, 5, 6.

Second Semester Courses

5. Furniture Design and Construction 1, 2, 6
22. Auto Mechanics 1, 3, 6
7. Foundry, repeated
8. Forge and Benchmetal, repeated
9. Machine Shop, repeated
19. Tools and materials 1, 2, 3, 5, 6
17. Adv. Patternmaking 2, 6
18. Building Plans and Specifications 1, 2, 5, 6
57. Architectural Rendering 1, 2, 5, 6
72. Design Applied to Wood 2, 6
62. Design, cont'd
70. Design Applied to Metal, cont'd
71. Design Applied to Clay, cont'd
112. Teaching Special Subjects
    1. Woodwork and Related Technical Subjects 1, 2, 5
    2. Metalwork and Related Technical Subjects 1, 3, 5
121. Foremanship and Employee Training 1, 2, 3, 4, 5, 6
116. Tests and Measurements 1, 2, 3, 4, 5, 6
113. Vocational Education 1, 2, 3, 4, 5, 6
80. Elementary Handwork (in public schools) 6.

Electives from Other Departments or Colleges

Other departments offering courses closely related to specialization interests enumerated above follow: The numbers after the department or college name refer to the specialization interest. They are not course numbers (see note above). Courses outside the College of Letters and Science may not be elected before the student's junior year, and then must not, when added to the courses in the department, carry total credits beyond sixty-two, exclusive of mechanical or freehand drawing.

Education 1, 2, 3, 4, 5, 6; Economics 1, 2, 3, 4, 5, 6; Chemistry 2, 3, 4, 5, 6; Physics 2, 3, 4, 5, 6; Mathematics 1, 2, 3, 4, 5, 6; Forestry 2, 6; Physical Geology 3; Journalism 4,6; Speech 1, 2, 3, 4, 5, 6; Physical Education 1, 2, 3, 4, 5, 6; College of Engineering 1, 2, 3, 5, 6.

II. Four-Year Course in Applied Arts (Major in Applied Arts) Leading to the Degree of B.S. (Applied Arts)

Freshman

First Semester	Credits	Second Semester	Credits
English	3	English	3
History or Language	3–4	History or Language	3–4
Mathematics, Biology or Chemistry	3–5	Mathematics, Biology or Chemistry	3–5
Departmental	3	Departmental	3
54. Modeling 3		72. Design applied to wood 3	
50. Freehand Drawing 3		51. Freehand Drawing 3	
Total	15–16	Total	15–16
Military Drill		Military Drill	
Physical Education		Physical Education	

Sophomore

English 30 or 2	2–3	English 30 or 2	2–3
History or Language	3	History or Language	3
Departmental	3–5	Departmental	3–5
56. Applied Drawing and Painting 3		56. Applied Drawing and Painting 3	
62. Design: Line and Form 3		62. Design: Surface enrichment 3	
Mechanical Drawing (Ind. Ed. 1)	3	Mechanical Drawing (Architectural) (Ind. Ed. 1b)	3
Electives		Electives	
Total	15–16	Total	15–16
Military Drill		Military Drill	
Physical Education		Physical Education	

Junior

Psychology (Philos. 1)	3	Education (Course 31)	3
Education (Course 11 or 41)	3	Departmental	7–10
Departmental	6–9	70. Art Metal 3	
70. Art Metal (Jewelry) 3		71. Pottery 3	
71. Pottery 3		73. Commercial Art 3	
63. Commercial Art 3		80. Elem. Construction Work	3
Electives		Electives	
Total	15–16	Total	15–16

Senior

Education (Course 90)	2	Departmental	9–11
Educational Practice (Education A)	2	112. Supervision and Teaching of Special Subjects 2-3	
Departmental	7–9	57. Architectural Rendering 2	
90. Psychol. of Teaching Arts and Industrial Subjects 2		113. Vocational Education and Guidance 2	
111. Org. and Adm. 2		131. Advanced Design 2-3	
132. Art Structure 2-3		116. Tests and Measurements 2	
130. Experimental Design 2-3		100. Thesis 2	
129. The Continuation School 2		Electives	
100. Thesis 2			
Electives			
Total	15–16	Total	15–16

Note: Required for graduation, 124 credits, 124 grade points.

Electives from Other Departments or Colleges for Course II

Other departments or colleges offering courses closely related to specialization interests follow: College of Letters and Science: Fine Arts 122, Economics 15 (Retail Advertising), Philosophy 51 (Aesthetics), Public Speaking; College of Engineering: City Planning 101; College of Agriculture: Horticulture 6 (Landscape Gardening), Home Economics 8 (Household Decoration), 74 (Decoration of the Home), 95 (Weaving), 94 (Applied Design). Courses outside the College of Letters and Science may not be elected before the junior year, and must not, when added to the courses in the department, carry total credits beyond sixty-two, exclusive of mechanical or freehand drawing.

Electives indicated in either of the four-year courses of study may be made from subject courses administered by the Department of Industrial Education and Applied Arts if professional requirements so demand. In no case shall the total number of credits for subjects in industrial education and applied arts, exclusive of six credits for drawing, exceed one-half the total number of credits earned by a student and accepted in fulfillment of the requirements for graduation.

Graduate Work

Independently, and in conjunction with the Department of Education and allied departments, ample opportunity will be afforded for graduate study leading toward the advanced degrees.

It is recognized that a department in a university school of education, equipped to train teachers of manual, industrial, and applied arts, should aim to encourage and aid graduate study in the field of industrial and vocational education. This perhaps should be its chief mission.

In the School of Education every possible effort will be made to offer courses and provide the necessary means for advanced study and experimentation for purposes of developing the required knowledge and ability necessary for positions of leadership.

PHYSICAL EDUCATION

For further information see Department of Physical Education, page 436.

Professional courses for teachers of physical education and for directors of play and recreation were organized at the beginning of the year 1911-12. The course is designed to provide a four-year professional preparation for those preparing to become instructors in physical education or directors of playgrounds and

recreation centers. Provision is also made for students who desire to do their minor work in physical education in preparation for combining leadership in physical education activities with academic subjects in the high school, for students who desire a familiarity with the problems of physical education as a part of their equipment as principals or superintendents in public schools or for positions as directors of social centers, and for students desiring academic courses in physical education as a part of a liberal education.

Four Year Course in Physical Education

Leading to the degree of B.S. (Physical Education)

Freshman

First Semester	Credits	Second Semester	Credits
English	3	English	3
Language	4	Language	4
Physics	5	Zoology 1B	5
History or Math.	3	History or Math.	3
Phys. Ed. 20 (req.)		Phys. Ed. 20 (req.)	
Total	15	Total	15
Military Drill		Military Drill	

Sophomore

Chemistry	5	Chemistry	5
Psychology (Phil. 1)	3	Language or Elective	3
Language or Elective	3	Anatomy	6
Hist. and Prin. Phys. Ed. (Course 55)	3	Spec. Tech.	2
Spec. Tech.	1	Phys. Ed. 20 (req.)	
Elective	1		
Phys. Ed. 20 (req.)			
Total	16	Total	16
Military Drill		Military Drill	

Junior

Kinesiology (56)	3	Physiology 115 (gen.)	5
Physiology 114 (Physiol. Chem.)	3	Hygiene	2
Physiology 115	2	Therapeutics and Phys. Exams (P. E. 63)	2
Nature and Func. of Play	3	Spec. Tech.	2
Spec. Tech.	2	Education (Course 90 or 41)	2or3
Education (Course 41 or 11)	3	Phys. Ed. 20 (req.)	
Phys. Ed. 20 (req.)		Elective	1–3
Total	16	Total	14–16

Senior

First Semester	Credits	Second Semester	Credits
Physiology 116 (Phys. of Exer.)	3	Phys. Diagnosis	3
Teaching and Adaptation (Phys. Education 90)	3	Phys. Ed. 19 (Practice Teaching)	1
Therapeutics and Physical Exams (P. E. 63)	2	Spec. Tech.	1
Phys. Ed. 19 (Practice Teaching)	1	Organization and Administration	2
Thesis	2	Thesis	2
Elective	3or5	Elective	5or7
Phys. Ed. 20 (req.)		Phys. Ed. 20 (req.)	
Total	14–16	Total	14–16

Electives in Physical Education

Scouting (Theory and Practice)	2	First Aid	1
Special Technique	2	Public Recreation	2

Language and Other Requirements

A. The total number of credits required for graduation is 124.

B. The degree conferred is B.S. in Physical Education.

C. Students who present two units of foreign language or less are required to secure 14 credits in one language. Students who present four units are required to secure eight credits in one language.

D. Special Technique above refers to teaching methods in physical training and athletics.

Minors

For information concerning minors in physical education consult Professor Lowman or Professor Trilling.

Fellowships

Two resident fellowships, with an annual value of $500 each, are provided in the School of Education. These fellowships are assigned by vote of the Faculty of the School of Education to graduate students who are interested primarily in the problems of teaching subjects that come within the scope of the School of Education.

The purpose of the fellowships is to encourage advanced work toward higher degrees by students who expect to take charge of special teachers' courses in normal schools, colleges and universities. They are not primarily designed for University students of the current graduating class who are preparing to teach in the secondary schools. The holders of these fellowships are expected to do graduate work in the departments concerned and in

the Department of Education. It is expected that the research work will be under the joint supervision of the Director of the School of Education and the adviser selected in the department in which the fellowship is assigned. The University receives calls for trained teachers of special methods courses, and the fellowship plan contemplated here is primarily to encourage graduate students of experience who are interested in pedagogical problems.

Further information concerning these fellowships may be obtained from the Director of the School of Education.

Industrial Scholarships

For the purpose of encouraging advanced study and special professional preparation for teaching in industrial vocational schools, the Regents have established four industrial scholarships to be awarded to senior or graduate students in the University of Wisconsin. Each scholarship has an annual value of $200. Appointment is for one year and is made upon the joint recommendation of the Chairman of the Department of Industrial Education and Applied Arts and the Director of the School of Education.

Further details concerning these scholarships may be obtained from the Chairman of the Department of Industrial Education and Applied Arts.

Special Lectures

In order that the School of Education may be maintained and developed in close relation with the practical educational interests of the state, the University arranges, from time to time, for special lectures by presidents and professors of normal schools, superintendents, principals, and others engaged in educational work.

Relations With Madison Public Schools

By the terms of a formal agreement entered into by the Regents of the University and the Board of Education of the city of Madison, the classes of designated teachers in the Madison High School and specified elementary schools are open to students in the School of Education for the observational study of teaching.

SCHOOL OF MUSIC

CHARLES H. MILLS, DIRECTOR, PROFESSOR OF MUSIC.

General Announcement

The School of Music offers the following courses: a four-year course leading to the degree of Bachelor of Music; a two-year course leading to the certificate of Supervisor of Public School Music.

Individual instruction in vocal or instrumental music may be taken by students not otherwise connected with the University, and such students are not required to pay the incidental fee required of all university students, but they must be able to satisfy the usual entrance requirements. See p. 296.

Special students under twenty-one years of age, who have unusual musical talent, may, in exceptional cases, be admitted to the courses in music on the recommendation of the Faculty of the School although they may not be able to satisfy fully the entrance requirements.

Students wishing to enter the School of Music will apply to the Registrar, Room 158, University Hall.

Students enrolled in other schools and colleges of the University are permitted by the School of Music to elect up to twenty credits in music. Of these, ten credits in advanced applied music instruction may be taken by juniors and seniors after the approval of their adviser and of the Director of the School of Music has been secured.

A detailed statement of musical courses will be found under Music in the College of Letters and Science.

Course of Study Leading to the Degree of Bachelor of Music

The School of Music offers a four-year course in music leading to the degree of Bachelor of Music. In this course the candidate may choose his major in one of the following departments: Applied Music; History and Theory; General Teaching; Public School Music.

N. B. Freshmen and sophomores may take work in applied music but receive no credit.

Musical Requirements for Entrance

Organ

No previous knowledge of organ playing is required, but a student will not be enrolled until he has acquired a satisfactory pianoforte technique and some skill in polyphonic playing.

Piano

Applicants for admission will be required to play music of the following grade or its equivalent: easier sonatas by Haydn and Mozart, Czerny, Op. 299, books I and II, Heller, Op. 47, easier Songs without Words by Mendelssohn. Some knowledge of major and minor scales is necessary.

Voice

The student must be able to read simple music and must have had an amount of training equal to the first half of Concone, with the usual technical study for the same period.

Violin

Candidates must be well grounded in correct position, intonation, tone, and bowing, and must have mastered the equivalent of David's Violin School, Part I, and the easier pieces of Dancla, Alard, and others.

Courses

I. Four-year course in music leading to the degree of Bachelor of Music.

In this course the candidate may choose his major in one of the following departments: Applied Music, History and Theory, Public School Music.

120 credits are necessary to graduate with the degree of Bachelor of Music. Of these 120 credits, 66 are obtained in the School of Music and 54 in the College of Letters and Science.

In the first two years the course is prescribed with the exception of three credits elective in Music in the sophomore year. In the junior and senior years there are certain prescribed studies in Music for all students, together with a number of prescribed electives chosen according to the major subject. (See p. 298.) The remaining credits are made up of electives in the College of Letters and Science and School of Music. This course has essentially the same foreign language requirements as the general B.A. course.

II. A two-year course in Public School Music with special certificate is also given in the School.

This course differs from the four-year course in omitting the first year (devoted largely to general university work) and the fourth (devoted largely to supervision, thesis, and advanced problems). One or two years actual teaching of children will be included according to the previous preparation of the student.

All students enrolled in this course will be required to take two hours of applied music and more, if necessary, to prepare them properly for their certificate.

Properly qualified students can complete the course in two years and may include in their electives enough work to give some proficiency in a subject which may be taught in connection with music, such as drawing, physical education, manual training and domestic science.

Note. In order that the student may complete the courses in the specified time there are certain musical requirements for entrance to the music courses in addition to those for general admission to the University. (See Appendix.) Students who are unable to meet the entrance requirements are given opportunity to make them up in the School.

I. The Course of Study Leading to the Degree of Bachelor of Music

Freshman		Sophomore	
Music 81-2-3-4, Applied	2	Music 81-2-3-4, Applied	2
Music 1, Harmony	3	Music 65, Appreciation	1
Music 71, Solfeggi	0	Music 75, Solfeggi	1
Letters and Science,		Music 11, Harmony	3
Foreign Language	4	Music, Electives	3
English	3	Letters and Science,	
History	3	Foreign Language	4or 3
		English or History	2or 3
Total	15	Total	15or16
Military Drill		Military Drill	
Physical Education		Physical Education	

Junior		Senior	
Music 21, Counterpoint	2	Music 100, Thesis or Recital	1 or 2
Music 31, History	2	Music, Prescribed electives,	3 or 4
Music, Prescribed electives	5	Music, Free electives	3, 4 or 5
Letters and Science,		Letters and Science,	
*Electives	3	**Electives	6
Electives	3		
Total	15	Total	15

Prescribed Electives:
Form and Analysis, Music 5
Advanced Harmony, Music 102
Advanced Counterpoint, Music 112
Canon and Fugue, Music 122
Ensemble, Music 85 and 86
Selection and Interpretation of Materials, Music 79
Applied Music 81-2-3-4
Pedagogical subjects
Practical Instrumentation Music 89

The maximum credits for students in individual instruction in Applied Music will be 16.

Music total	66
Letters and Science	54 or 56
Total	120†

Unless excused by the Director of the School of Music, students majoring in

a. Vocal music are required to sing one year in the Choral Union and two years optional with one of the Glee Clubs or Choral Union.

b. Public school music (four year) are required to sing in the Choral Union two years with a third year optional either with one of the Glee Clubs or the Choral Union.

c. Public school music (two year) are required to sing in the Choral Union for two years.

d. Orchestral instruments are required to play in the University Orchestra.

e. Piano and organ are required to study some orchestral instrument for experience in orchestral routine.

All candidates for the degree of Bachelor of Music are required to pursue their studies in accordance with the above schedule.

Students must prove their efficiency before their graduation either by giving a recital or writing a thesis on a given topic. Students are allowed a choice of these alternatives on consultation with the director or an advisor appointed by him. Two or four credits are allowed for either recital or thesis. The latter is subject to the usual regulations.

*Students registered in the School of Education must satisfy the specified requirements of that School.

**Physics 1, including acoustics, by arrangement with Department of Physics.

†The same number of grade points is also required.

II. Two-Year Course in Public School Music

First Year		Second Year	
Music 41, Methods and Practice	4	Music 51, Methods and Practice	4
Music 1, Harmony	3	Music 11, Harmony	3
Music 71, Solfeggi	1	Music 75, Solfeggi	1
Music 65, Appreciation	1	Music 31, History	2
Music 81 or 82, Applied Music	2	Letters and Science, *Electives	6
Music 89, Practical Instrumentation	2		
Letters and Science, English 1	3		
	16		16
Military Drill		Military Drill	
Physical Education		Physical Education	

Special State Certificate

Students satisfactorily completing the two-year course for Supervisors of Music will be entitled to a recommendation to the State Board of Examiners to receive a special state license to teach music in the public schools of the state. This recommendation will be issued by the Director of the School of Education (Prof. V. A. C. Henmon, University Hall, 217), providing:

(a) That the student registers in the School of Education not later than December 1 of the first year of residence.

(b) That the student has earned the following credits as electives: Philosophy 1 (psychology), three credits; Education 6 (Public Education), Education 11 (Mental Development), Education 31 (Principles of Education), Education 41 (Educational Psychology), or Education 90 (Technique of Instruction), 3 cr.

(c) That the student presents a statement from the Director of the School of Music as to general fitness for teaching.

General Course for Grade and High School Teachers

This course is designed for teachers who expect to combine the teaching of other branches with the subject of music, in grade and high schools. This class meets twice a week throughout the year. The work consists of a study of the technical points to be presented in the school and the practice of songs suitable for school use. This course is of value to those who expect to

*Students registered in the School of Education must satisfy the specified requirements of that School.

teach in public schools or who wish to conduct high school choruses, and includes training in conducting.

Public School Drawing

Students who take the Supervisors' courses will find it to their advantage to devote some attention to preparation for the teaching of drawing. For this purpose the following elective courses in the Department of Arts are available: Course 50, Theory and practice of freehand drawing, 3 cr.; Course 54, Modeling, 3 cr.; Course 62, II, Design, 3 cr.; Courses 70, Applied design in metal, 71, Applied design in clay, or 72, Applied design in wood, 3 cr.; Course 90, Psychology of teaching industrial applied arts, 3 cr.; Course 111(3), Organization (woodwork, metal work, applied arts), 2 cr.

Instruction in Applied Music

Pianoforte: Mr. Townsend, Miss Gunderson, Mr. Iltis, Mr. Hibbets.

Voice Culture: Mr. Swinney, Miss Peterson, Mrs. Caton.

Organ: Mr. Mills, Miss Eastman, Miss Nash.

Violin and Viola: Mr. Burleigh, Mr. Morphy.

Orchestral Instruments

Violoncello and Double-Bass: Mr. Morphy.

Wood-Wind Instruments: Mr. Morphy.

Brass Instruments: Mr. Morphy.

Orchestra

MR. MORPHY.

The University Orchestra is composed of about sixty-five players. The purpose of the organization is the study of the larger classical forms, and to present these in public.

Rehearsals are held weekly in Music Hall during the school year. Membership is open to the entire student body, and to others who may qualify. After two semesters' enrollment in the orchestra, a university student may receive one credit of one hour for each of the two following semesters. This work is catalogued as collegiate course 76.

Band

MR. MORPHY.

The University Band consists normally of about one hundred and ten men, divided equally between two organizations known as the First Regiment Concert Band, and the Second Band, the former being mainly a concert organization. The latter forms a training school for the more inexperienced students. The First Regiment Band rehearses twice per week while the Second Band rehearses three times each week. Freshmen and sophomores belonging to the band receive military credit. Students who desire to join should confer with the bandmaster.

Choral Union

MR. DYKEMA.

The Choral Union is open to all members of the University interested in studying and presenting oratorios and standard choral works.

Membership is also open to others not in the University. There is a membership fee of one dollar a year. At least two performances (one at Christmas and one in the spring) are given each year. Rehearsals are held weekly in Music Hall from October to May.

This work is catalogued as collegiate course 77, and is open as an elective to students of all schools and colleges. University credit of one unit-hour for the whole year is granted at the end of the season. Freshmen are eligible for membership, though without credit for the first year.

University Men's Glee Club

MR. SWINNEY.

The University Men's Glee Club is an organization of forty men. This club makes at least one extensive tour during the school year. Vacancies are filled by competitive trial, and membership is open to the entire student body, including graduate students.

University Girls' Glee Club

MISS WILLMAN.

The University Girls' Glee Club is an organization of thirty-two women. Frequent public appearances are made locally. Vacancies are filled by competitive trial and membership is open to the entire student body, including graduate students.

Recitals and Concerts

All music students are required to attend the concerts, recitals, and lectures (public) given under the auspices of the School of Music.

Artists' Recital Series

The Artists' Recital Series consists of an annual course of recitals of chamber music.

Students enrolled in the School of Music are required to attend these concerts for which a fee of one dollar a year is charged (payable at the time of registration).

Students' season tickets at $1.00 are available to all students of all schools and colleges of the University.

Season tickets at moderate cost are also available to the general public.

Faculty and Student Recitals

Lecture-recitals and concerts, open to the public without charge, are given by members of the Faculty of the School of Music at stated intervals during the concert season.

Student recitals, free to all students of the University and open to all others by invitation, are held at frequent intervals throughout the collegiate year.

Public performance being part of the course of study in a practical subject, all students are required to participate in a program when they are, in the instructor's opinion, sufficiently prepared.

Equipment

The School of Music is provided with a concert auditorium, lecture hall, teaching rooms for applied music, practice rooms, two two-manual organs, pianos, orchestral and band instruments, and an equipment of mechanical instruments.

Tuition

See pp. 80, 82.

Neither the incidental fee nor the nonresident tuition is required of students taking private instruction in Applied Music only. Persons who are members of other schools and colleges of the University may take the theoretical courses in music without charge.

Students of the School of Music not otherwise connected with the University are admitted to theory classes on payment of the usual incidental fee charged to students of the University. If nonresidents of the state, such students will be required to pay the nonresident fee.

No deductions are made for absences except in cases of protracted illness, when a rebate of one-half the fee for the time lost will be granted. All university holidays will be observed without make-up of lessons.

Students enrolling at any time previous to the fifteenth day of any semester will be charged the full fee for that semester. Students enrolling thereafter may receive some reduction at the discretion of the director.

All fees must be paid before the third lesson unless otherwise excused by the director. Teachers are not permitted to give instruction after the second lesson without receiving notice that the student's fees are paid.

Rules and Regulations

The School of Music calendar is the same as that of the University, but students in Applied Music may enter at any time.

No student is expected to take part in any public performance without the consent of his instructor and the director.

General Directions

All students in the four- and two-year courses in music must present their registration cards from the Registrar's office before being assigned work in the School of Music.

All students in Applied Music must present an Applied Music registration card before registering in the School of Music.

New students in Applied Music will be examined by the Examining Committee of the School of Music to learn the status of their work and to determine whether or not the subject can be

taken for credit in the case of juniors and seniors from the College of Letters and Science. This committee will meet from ten to twelve on the first Monday, Tuesday, and Wednesday, of the semester, and by appointment when necessary. Appointments to meet the committee may be made with the secretary.

The office of the director in Music Hall at the University will be open for several days before the beginning of each semester for the reception of students and assignments of courses. After the opening of the University the director may be found at Music Hall from 11 to 12 and from 2:30 to 3:30 daily, Saturday excepted

For further information address

C. H. MILLS,
Director, School of Music,
The University of Wisconsin,
Madison, Wisconsin.

COLLEGE OF ENGINEERING

FREDERICK E. TURNEAURE, DEAN, PROFESSOR OF ENGINEERING.

Organization of the College

The College of Engineering is organized in the belief that a thoroughgoing fundamental training is the first essential to a successful engineer, but that this fundamental training may be best secured not alone by theoretical study, but by giving attention as well to the practical application of the principles involved. It is further a leading thought that after the fundamental principles have been mastered, a certain measure of specialization in the main lines of engineering is advisable. In carrying out this plan the mathematical and theoretical courses are made strong in the earlier years, and a limited number of professional courses are given in the later years, while the drawing and shop courses continue progressively from the beginning to the end. Those who desire to elect foreign language are given an opportunity to secure a reading knowledge of professional German, French, and Spanish literature. Special attention is given to the subject of English composition.

Requirements for Admission to the Courses Leading to the B.S. Degree

See pp. 108ff.

Preparation in Algebra for Engineering

All students entering the College of Engineering will be tested in algebra by class work and by an examination given shortly after the beginning of the first semester. It is essential that students in the engineering courses shall possess a good working knowledge of algebra *at the beginning of their course*, and it is the purpose of the test to secure this by requiring a review of the subject shortly before entering the University. Students failing in the test are not permitted to continue with regular fresh-

The College of Engineering Circular, giving detailed information concerning the College, may be obtained upon application to the Registrar of the University.

man mathematics, but are required to take a review of preparatory algebra during the first semester. A special course (for which no university credit is given) is provided for this purpose.

In performing the fundamental operations of algebra, such as multiplication and division, the use of parentheses, the solving of numerical and literal equations of the first and second degrees, the simplifications of fractions and radicals, and the putting of problems into equations, it is of the first importance that the student should appreciate the reasons for all that he does, and be able to state these reasons clearly. He should be able to perform all these operations, even though somewhat complex, with rapidity, accuracy, and neatness. In his preparatory studies the student is advised to solve a great many practical problems and to state fully the reason for the steps taken.

Student Advisers

In the selection and arrangement of studies, all students are under the supervision of advisers. It is the duty of the advisers to issue class cards at the opening of each semester, admitting students to their classes, to receive the regular semester reports from instructors, and special reports on deficient students, and to report to the Faculty all cases requiring special action.

Reports to parents or guardians on the work of students are sent from the Registrar's office at the end of each semester.

Fees and Expenses

See pp. 80ff.

Equipment

Buildings

The main building of the College of Mechanics and Engineering contains offices, recitation and drawing rooms, the engineering library, and laboratories for work in steam and gas engineering, and for the testing of materials. A second building contains the electrical laboratories, a third, the various departments for shop instruction; a fourth, the laboratories for chemical engineering; a fifth, the hydraulic laboratory; and a sixth, the mining building, the ore dressing and assaying laboratories.

For chemistry the engineering students go to the Chemistry Building, for physics to Sterling Hall, and for language, mathematics, and other similar work, to the literary halls of the University. In this way the students of engineering come into daily contact with the students in the other courses.

Libraries

For a general account of library facilities of the University see page 78.

The engineering library is housed in the main engineering building, where reading-room facilities are provided for about one hundred students. The collection of technical books is very complete and includes files and current numbers of about two hundred and fifty periodicals.

Laboratories and Apparatus

The Bridge Engineering Department owns several autographic extensometers and a deflectometer for determining bridge stresses under moving train loads. The department also possesses a large number of photographs, drawings, and lantern slides illustrating details, erection methods, and complete structures of a great variety of designs.

The Chemical Engineering Laboratories located in the Chemical Engineering Building are equipped for technical gas and fuel examinations, the equipment comprising all standard forms of analytical apparatus, gas and fuel calorimeters. Steam stills, rectifying stills, evaporators, centrifugals, vacuum dryers, digesters, vacuum and pressure pumps, melting, roasting and calcining furnaces, and other similar apparatus are installed for the study of chemical manufacture.

In the crushing and grinding room are various commercial types of course and fine crushers and disintegrators for treatment of ores and other raw materials. Magnetic, electrostatic, and other forms of separators are included in the equipment.

The applied electrochemistry equipment comprises a great variety of electrochemical appliances, a complete electroplating and refining room, an electric furnace room with various types of furnaces and sources of power, both alternating and direct, aggregating over 250 horsepower.

A complete equipment of base metal and platinum thermocouples, resistance thermometers, radiation and optical pyro-

meters, millivoltmeters, potentiometers, and furnaces are available for the testing of steels, refractory materials, ores, etc.

Metallographic microscopes of various types, furnaces, pyrometers, grinding and polishing machines, and photographic rooms are installed for the study of the structure and effects of heat and mechanical treatment on metals and alloys.

The Electrical Laboratory equipment may be classified under the headings: Dynamo, Photometric, Electric Standards, High Tension, Telephonic, Radio, and General Research Equipment.

The equipment is unusually complete and every facility is offered for efficient work. The Department of Electrical Engineering cooperates with the Wisconsin Railroad Commission in the use of its laboratories for standardizing work.

The Engineering Shops afford excellent facilities for mechanical practice. There are five departments: Machine Shop, Forge Shop, Pattern Shop, Foundry, and Carpenter Shop.

The Machine Shop has a well balanced equipment for handling classes in elementary and general shop work. The Heat Treatment room has several gas furnaces with pyrometers for annealing, hardening, tempering and case hardening operations.

The Forge Shop is equipped with the latest design down-draft forges, and direct connected blast-exhaust unit.

The Pattern Shop has 24 wood lathes, with sets of turning tools, and standard individual work benches with the necessary tools for general pattern making, a small bench jointer, and 14-inch band saw.

The Foundry is equipped with 16-inch Cupola, Brass furnace, Core oven, two Molding machines, 24 individual Molding benches with sets of tools, Motor driven riddle, and rattle box.

The Carpenter Shop is equipped with power wood working machines, such as Jointer, Planer, Universal saw, Band saw, and Sander.

The Carpenter Shop is used for the preparation of material used in pattern making and for the Short Course work.

A number of first class machines purchased under the Caldwell Act have been added to the Machine and Carpenter Shops.

The Hydraulic Laboratory, which occupies its own building, is located on the shore of Lake Mendota. The facilities, therefore, are especially good for studying problems where large quantities of water under low heads are required. A 220,000 gallon concrete reservoir 60 feet above the laboratory on the bluffs supplies water under very steady heads. The university water works

pumping station and pressure storage tank house, which immediately adjoins the hydraulic laboratory, provides a water supply under heads up to about 170 feet. The laboratory is unusually well equipped. It has a thirty-inch centrifugal pump furnishing up to 35,000 gallons per minute, five concrete measuring chambers with a total capacity of about 10,000 cubic feet, various weir boxes and weirs, pipes of different materials and sizes, Venturi, and meters of disc and piston type, turbines, overshot, and tangential wheels, pumps of various types, including two air lift pumps, hydraulic rams, and a full supply of apparatus designed for experimental purposes.

The Mining and Metallurgical Building contains about ten thousand square feet of floor space. The assay laboratories include a furnace room, a chemical laboratory, and a balance room equipped with all the important types of fire assay apparatus. The ore dressing laboratories include crushing, grinding, sizing, classifying, concentrating, and amalgamating equipment. The metallurgical equipment comprises special types of furnaces and testing apparatus, cyanide plant, pyrometers, and other accessories; and the clay manufacture laboratory is equipped with crushing and moulding machines, dryers and kilns. Special facilities are offered for research.

The Steam and Gas Engineering Laboratory is well equipped with a variety of steam and gas engines, specially arranged for experimental work, and for demonstration of the principles discussed in the classroom. One of the most important of these is a fifty-horsepower cross compound steam engine specially arranged for testing with either superheated or saturated steam. Another important item is a fifteen-ton refrigerating plant, consisting of a Corliss engine direct-connected to a horizontal double-acting ammonia compressor. With the above compressor there are installed double pipe condensers and brine coolers, brine tanks, and brine coils.

This laboratory also contains a twenty-five kilowatt steam turbine, a fifty-horsepower two-stage air compressor directly connected to a compound condensing engine equipped with the Meyer valve gear; also various other types of steam, gas, gasoline, and hot air engines, automobile engines, and gas producers, and a small vertical boiler and engine. A 150 H. P. electro-dynamometer of the latest type and equipment is worthy of particular mention. This is suitable for testing automobile and similar engines at any speed up to 3500 revolutions per minute. Special

equipment has recently been completed for the measurement of air by a number of different methods. A very complete apparatus for testing the efficiency of shaft bearings of various types has been built in the college shops and is now used by students in regular laboratory courses. The equipment of the University Heating Plant, the Capitol Heating Plant, and the plant of the Madison Gas and Electric Company, are available and are used by the students as part of their regular laboratory work.

Transmission dynamometers, belt testing machines, gear transmission, friction testing machines, etc., are provided for experimental work in the transmission of power.

Excellent facilities are also provided for carrying on engineering research. Special facilities are available to graduate students who wish to pursue advanced research.

The Surveying Laboratory contains all the portable astronomical and field instruments needed for extensive triangulation, topographic, hydrographic, and railroad surveys, including theodolites, heliotropes, Kern precise-level and new U. S. C. & G. S. precise-level outfits, sounding apparatus, baseline apparatus, including an "invar" tape, current meters, transits, compasses, levels, plane tables, telemeters, and such special instruments as planimeters, pantographs, sextants, aneroid barometers, etc. By an agreement with the director of Washburn Observatory, the surveying laboratory shares in the free use of the extensive apparatus belonging to that observatory.

The Road Material Testing Laboratory contains a standard N. B. M. brick rattler of the latest type, a four-cylinder Deval abrasion machine, a Page impact machine for testing the toughness of a rock, a ball machine, a diamond drill, a diamond saw, and a standard impact machine for testing the cementing power of rocks.

Arrangements have been made with the Chemical Engineering Department whereby special instruction is given to highway engineers on the chemistry of bituminous materials, and excellent opportunities are offered for learning the usual laboratory tests on asphalts, tars, and oils. See Roads and Pavements 104 and Chemical Engineering 121.

The Testing Laboratory is supplied with a 600,000 pound hydraulic universal testing machine (designed in the laboratory) taking tension and compression specimens 10 feet and beams 20 feet long, a Riehlé torsion machine taking shafts 15 feet long and 3 inches in diameter, a 100,000 pound Johnson beam machine

taking beams 18 feet long, six Olson and Riehlé universal machines from 10,000 to 100,000 pounds capacity, a Thurston torsion machine, a Russell impact machine, a Deval abrasion machine, a Dorry abrasion machine, a standard brick rattler, hardness testers, several small beam and wire machines, a refrigerator and a gas furnace for freezing and heating tests, a Smith concrete mixer and a good equipment for tests of cement and plain and reinforced concrete.

The Cement Laboratory contains a full supply of necessary apparatus for making standard tests: baths, recording thermometers, Boehme hammer, one-thousand pound Riehlé and Fairbanks testing machines, etc.

The Forest Products Laboratory is conducted in cooperation with the work of the University, and offers especially valuable opportunities for engineering students to carry on advanced study and research pertaining to the utilization of forest products. The equipment of this laboratory is described under Forest Products Laboratory. (See Index.) Its completeness makes it possible to approximate commercial conditions much more closely than is done in the ordinary laboratory work.

The investigative work of the laboratory includes the following fields: (1) Timber Physics, (2) Timber Mechanics, (3) Wood Preservation, (4) Wood Distillation, (5) Wood Pulp, (6) Chemistry of Wood, (7) Lumbering and Manufacture, (8) Glues, Veneers and Plywood, and (9) Shipping Containers.

The Paving Material Museum includes an excellent exhibit of paving supplies and samples of both old and new pavements, both foreign and domestic, for use in the courses in roads and pavements.

Courses of Study and Degrees

Courses Leading to the B.S. Degree

The College of Engineering offers five systematic four-year courses leading to the B.S. degree:

Civil Engineering.
Mechanical Engineering.
Electrical Engineering.
Chemical Engineering.
Mining Engineering.

Students who complete any of the above four-year courses are graduated with the degree of bachelor of science, the diploma containing a specific designation of the course taken.

The above courses may also be taken as five-year courses leading to the B.S. degree. The additional year will make it possible to include a large amount of work in the College of Letters and Science.

Graduate Work

The graduate work in the College of Engineering is a part of the Graduate School of the University, and is in charge of an administrative committee. Excellent opportunities are offered in the various departments for advanced theoretical work and for research. A special fund is available to be devoted exclusively to experimental work in the engineering laboratories.

The degree of master of science (in civil engineering, mechanical engineering, etc.) is conferred upon graduates of approved institutions who have completed suitable undergraduate courses and pursue advanced professional study at the University for one year or more, present a satisfactory thesis, and pass an oral examination upon the field of their graduate work. For a complete statement of the requirements see Index under Degrees.

The degrees of civil engineer, mechanical engineer, electrical engineer, chemical engineer, and engineer of mines are conferred upon graduates of the College of Engineering of the University of Wisconsin who have spent five years in professional work, at least one of which must have been in a position of responsibility, and who present a satisfactory thesis. For a complete statement of the requirements, see Index under Degrees.

The degree of doctor of philosophy is conferred upon graduates of the engineering courses under the same requirements as apply to graduates of other Divisions of the University. For a statement of these requirements see Index under Degrees.

Six-Year Courses Leading to the B.A. Degree and an Engineering Degree

By properly arranging their elective studies, students in the College of Letters and Science secure the B.A. degree at the end of four years, and the B.S. degree in engineering in two additional years. These students will register in the College of Letters and Science during the first four years of residence.

They will elect during their collegiate course the studies of the first two years of the engineering course which they plan to pursue later, with the exception of shop work. This may be taken as an extra study, or may be taken during vacation time. Upon

receiving the B.A. degree they will be admitted as juniors in the College of Engineering.

Summer Vacation Work

All Engineering students are required to take summer vacation work in addition to the work of the four academic years. For civil engineering students this work consists of four weeks of field work, following either the sophomore or the junior year. For mechanical engineers, the requirement consists of not less than seven weeks of approved summer work in industrial practice. The electrical engineers are required to take four weeks of approved summer work in an engineering or industrial organization. The Chemical Engineers, at the close of the junior year, are required to work five weeks in the university laboratory on chemical manufacture. Mining engineers are required to spend a considerable portion of two summer vacations at work in different mining regions, and the metallurgical engineers a corresponding time in metallurgical works. The third summer is occupied by the mine inspection trip.

Inspection Trips

Inspection trips, for visiting industrial plants, are required of all engineering students during the junior or senior year. They are arranged and conducted by members of the faculty of the various departments and are designed to illustrate the work of the several courses.

The electrical and mechanical engineers take the trip in the autumn of the senior year. The trip takes a week's time and visits are made to plants in Milwaukee, Kenosha, Waukegan, Chicago, Buffington and Gary.

The civil engineers visit the cities of Chicago and Milwaukee, one in the spring of the junior year, the other in the autumn of the senior year. Each of these trips takes three to four days.

The chemical engineers make a week's visit to Milwaukee, Chicago, and points near by in the spring of the junior year.

In the second semester of the freshman year mining engineers take a trip to a mine in one of the nearer districts for the purpose of making a complete mine survey, and while there make a complete inspection of the operation.

In metallurgy the students annually inspect the metallurgical works around Chicago, the trip lasting a week.

At the end of the junior year, or, if advisable, just after their commencement, mining engineering students in mining and in metallurgy are required to take the long western inspection trip, visiting mining and metallurgical centers throughout the northwest. This trip lasts about six weeks.

Thesis

In all courses candidates for a second or a professional degree in engineering shall submit a thesis. The thesis requirements of the different courses in the College of Engineering pertaining to candidates for the B.S. degree are as follows:

In the civil engineering course a thesis is required. In the electrical, mechanical, and mining engineering courses a thesis is optional. In chemical engineering a course in special problems replaces the thesis requirement.

If a thesis is taken, the subject of the thesis shall be selected by the student after consultation between the student, his adviser, and the instructor who is to direct the work, and it shall be submitted to the Course Committee for approval. The total number of credit hours granted for this work shall be not less than three nor more than five, except by special action. The thesis is to be typewritten according to specifications furnished by the librarian of the University, and before it is accepted must be approved by the instructor under whom the work has been done. It shall be deposited in the University Library by the Thursday before commencement.

Freshman Lectures

The College has provided for a course of lectures for freshmen. Attendance is required. In the lectures of this course the aim is to give the student a more adequate conception of the work of the engineer, to make clearer the kind of training which furnishes the best preparation for the practice of the engineering profession, and to call attention to the methods of study which have been found to produce satisfactory results. The course also includes several lectures on subjects of more general interest.

Special Lectures

It is the practice of the College to provide each year a number of lectures on various phases of engineering practice. These

lectures are for the most part given by prominent nonresident engineers and professors; some are given by Wisconsin professors. Their purpose is to enliven the interest of the student and to broaden his horizen, rather than to give specific instruction. The following lectures were given during the academic year 1920-21, and during the first semester of 1921-22.

November 23, 1920.
Frederick G. Cottrell, director of the United States Bureau of Mines.
"Relations of Patents to Scientific Research."

December 3, 1920.
Francis S. Peabody, president of the Peabody Coal Company.
"Economy in Coal Production."

February 25, 1921.
Anson Marston, dean of engineering, Iowa State College.
"Our National Highway Engineering Problem."

March 11, 1921.
David White, chief geologist of the United States Geological Survey.
"Fuel Reserves."

March 25, 1921.
Ernest E. Thum, associate editor of *Chemical and Metallurgical Engineering*.
"What's New in Metallurgy."

October 3, 1921.
Mr. Albert A. Northrup of the Stone and Webster Company.
"The Construction of the Caribou Hydro-Electric Power Plant."

Outline of Engineering Courses

CIVIL ENGINEERING COURSE

Leading to the B.S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Top. Engr. 1	2	Top. Engr. 2	2
Total	16	Total	16
Physical Education		Physical Education	
Military Science		Military Science	
Freshman Lectures			

Sophomore Year

Mathematics 54	4	Mathematics 55	4
Physics 51	5	Physics 52	5
Drawing 3	3	Mechanics 1, 2	5
Top. Engr. 3	3	Top. Engr. 104	3
Ry. Engr. 1	2		
Total	17	Total	17
Military Science		Military Science	

Topographical Engineering (Summer work), four weeks.

Junior Year

Mechanics 3	5	Mechanics 52	2
Mechanics 51	2	Hydraulic Engr. 110	2
Hydraulic Engr. 2	4	Railway Engr. 110	2
Railway Engr. 2	3	Structural Engr. 2	4
Geology 9	3	Steam and Gas Engr. 7	2
Roads and Pavements 102	2	Economics 1a	4
Engr. Seminary	1	Engr. Seminary	1
		Elective	3
Total	20	Total	20

Railway Engineering (Summer work), two weeks.

Senior Year

Structural Engr. 3	3	Engr. Contracts 101	2
Structural Engr. 105	3	Structural Engr. 4	2
Steam and Gas Engr. 27	2	Elect. Engr. 149-150	4
Hydraulic Engr. 111	3	Railway Engr. 111	1
Engr. Seminary	1	Engr. Seminary	1
Thesis	1	Thesis	2 to 4
Elective	7	Elective	8 to 6
Total	20	Total	20

Requirements Concerning Elective Studies

At the beginning of the junior year, the student must elect to pursue one of the following groups of studies:

STRUCTURAL OPTION

Junior Year

		Credits	Semester
Mining Engr. 124	Metallurgy of Iron and Steel	2	I or II

Senior Year

Structural Engr. 3	Bridge Design, additional	1	I
Structural Engr. 107	Higher Structures	2	I
Structural Engr. 4	Bridge Design, additional	1	II
Structural Engr. 111	Reinforced Concrete Design	2	II
Structural Engr. 108	Secondary Stresses, or	2	II
Mechanics 106	Advanced Mechanics		
Mechanics 108			

Additional Suggested Electives

Structural Engr. 106, 109, 112, Mechanics 108

RAILWAY OPTION

Ten credits to be elected from the following group:

Ry. Engr. 103	Maintenance of Way	2	II
Ry. Engr. 105	Economics of Railway Engineering	2	I
Ry. Engr. 107	Advanced Design	2	I or II
Ry. Engr. 108	Signaling	2	II
Ry. Engr. 112	Valuations	2	II
Elect. Engr. 129	Electric Railways	2	II
Min. Eng. 101	Excavation and Tunneling	3	I
Economics 135	Railway Transportation	3	I or II
Economics 136	Railway Rate and Traffic Problems	3	I or II

HYDRAULIC OPTION

Hyd. & San. Engr. 102	Hyd. Machinery Testing	2	I
Hyd. & San. Engr. 104	Water Power Engr.	3	I
Sanitary Engr. 105	Hyd. Machinery	2	II
Sanitary Engr. 112	Sewerage, Drainage and Irrigation	3	II
Sanitary Engr. 113a and 113b	Hyd. Design	4	I or II

MUNICIPAL OPTION

The following courses are required:

Junior Year

City Planning 101	City Planning	2	I
Hygiene 109	Water and Sewage Analysis	2	II

Senior Year

Hyd. & San. Engr. 112	Sewerage, Drainage, Irrigation	3	II

HIGHWAY OPTION

Highway Engr. 103	Seminary	3	II
Highway Engr. 104	Laboratory	3	II
Struct. Engr. 112	Highway Bridges	2	II
Chem. Engr. 121	Lab. on Bitumens	2	II
City Planning 101	Lay-out of Street Systems	2	I

GENERAL OPTION

All electives are free, excepting that not more than half can be taken in the department providing special optional groups.

MECHANICAL ENGINEERING COURSE

Leading to B.S. Degree

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Shopwork 1, 2, 3	2	Shopwork 4, 5	2
Total	16	Total	16
Physical Education		Physical Education	
Military Science		Military Science	
Freshman Lectures			

SOPHOMORE YEAR

Mathematics 54	4	Mathematics 55	4
Physics 51	5	Physics 52	5
Machine Design 1	4	Drawing 3	3
Shopwork 6, 13	3	Machine Design 2	1
		Mechanics 1, 2	5
Total	16	Total	18
Military Science		Military Science	

The equivalent of four credits for industrial practice. See Shopwork Course 10.

JUNIOR YEAR

Mechanics 3	5	Steam and Gas 22	2
Mechanics 53	2	Steam and Gas 2	4
Steam and Gas 1	4	Hydraulic Engr. 1	3
Machine Design 3	4	Machine Design 4	4
Shopwork 7	2	Machine Design 11 and 12	2
*Electives	3	Electrical Engr. 144	3
		Elect. Engr. 130	2
Total	20	Total	20

SENIOR YEAR

Steam and Gas 105	2	Steam and Gas 106	2
Steam and Gas 23	2	Comm. Mech. Engr. 102	2
Comm. Mech. Engr. 101	3	Steam and Gas 124	1
Elect. Engr. 144	3	Shopwork 8	1
Elect. Engr. 132	2	Shopwork 9	1
Shopwork 12	1	Chemical Engr. 8	1
Electives	7	Machine Design 109	2
		Thesis and Electives	10
Total	20	Total	20

*It is recommended that these electives be on subjects not closely related to technical engineering work.
Must include Water Power, 3 credits, first semester, or Hydraulic Machinery, 2 credits.

ELECTRICAL ENGINEERING COURSE

Leading to the B.S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
English 1a	3	English 1b	3
Drawing 1	3	Drawing 2	3
Shopwork 1, 2, 3	2	Shop 4, 5	2
Chemistry 2	3	Chemistry 2	3
Total	16	Total	16
Physical Education		Physical Education	
Military Science		Military Science	
Freshman Lectures			

Four weeks of approved summer experience in an engineering or industrial organizaton.

Sophomore Year

Mathematics 54	4	Mathematics 55	4
Physics 53	3	Physics 54	3
Drawing 3	3	Machine Design 1	4
Economics 1a	4	Elect. Engr. 140a, 140b	5
Top. Engr. 108	3	Shopwork 6	2
Total	17	Total	18
Military Science		Military Science	

Junior Year

Mechanics 1, 2	5	Mechanics 3	5
Physics 55	3	Physics 56	3
†Steam and Gas 3	3	†Steam and Gas 4	3
Electrical Engr. 141	4	Steam and Gas 28	2
Electrical Engr. 102	2	Electrical Engr. 143a	4
Hydraulic Engr. 1	3	Electrical Engr. 112a	2
		Elective	0
Total	20	Total	19

Senior Year

Mechanics 53	2	*Contracts 101	2
Machine Design 5	3	Electives	18
Electrical Engr. 125	2		
Electrical Engr. 143b	4		
Electrical Engr. 112b	2		
Electives	6		
Steam and Gas 29	1		
Total	20	Total	20

*Commercial Law or Engineering Administration may be substituted.

†Students may substitute Steam and Gas 1 and 2 required for mechanical engineers and count the additional two credits as elective.

ELECTIVES

Of the 24 elective credits, 12 are free electives and 12 must be selected from the following group of electrical applications:

First Semester	Credits
EE 127—Central Stations	3
EE 122—Electric Testing	2
EE 116—Electric Circuits	3
155a—Telephony and Telegraphy	3
Chem. E. 4—Applied Electro-chemistry	3
EE 154b—Radio Telegraphy	3
EE 129a—Electric Railways	3
EE 160—Advanced Individual Studies.	

Second Semester	
EE 104—Dynamo Design	2
EE 120—High Tension Insulation.	
EE 129—Electric Railways (continued)	3
EE 137—Power Distribution	3
EE 133—Illumination and Potometry	3
EE 155b—Electric Amplifiers and Oscillators	3
EE 154a—Radio Telegraphy	3
EE 160—Advanced Individual Studies.	

CHEMICAL ENGINEERING COURSE

Leading to the B.S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Shop 1, 2, 3	2	Shopwork 4, 5	2
Total	16	Total	16
Physical Education		Physical Education	
Military Science		Military Science	
Freshman Lectures			

Sophomore Year

Mathematics 54	4	Mathematics 55	4
Chemistry 11	5	Mechanics 1, 2	5
Physics 51	5	Physics 52	5
Machine Design 1	4	Chem. Eng. 12, 18	4
Total	18	Total	18
Military Science		Military Science	

Junior Year

Mechanics 3	5	Steam and Gas 4, 25	5
Steam and Gas Engr. 3	3	Electrical Engr. 131a	2
Chemistry 120	3	Chemistry 120	3
Chem. Engr. 117	2	Drawing 3	3
Chem. Engr. 119	3	Chem. Engr. 111	2
Electives	3	Mechanics 54	2
		Electives	3
Total	19	Total	20

Summer Work, Chemical Engineering 114 (Chemical Manufacture), 4 credits.

Senior Year

Steam and Gas Engr. 26	1	Contract 101	2
Elect. Engr. 147	3	Chemistry 30	3
Machine Design 5	3	Chem. Engr. 116	2
Chem. Engr. 101a	5	Chem. Engr. 120	2
Chem. Engr. 15, 116	5	Chem. Engr. 122	4
Elective	3	Elective	3
		Elect. Engr. 147	3
Total	20	Total	19

COURSES IN MINING, METALLURGY, AND GEOLOGY

Leading to the B.S. Degree

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Shopwork 1, 2, 3 or Top. Engr. 1	2	Shopwork 4, 5 or Top. Engr. 2	2
Total	16	Total	16

Physical Education
Military Science
Freshman Lectures

Physical Education
Military Science

SOPHOMORE YEAR

Mathematics 54	4	Mining 121	2
Physics 51	4	Mathematics 55	4
Chemistry 11	5	Physics 52	4
Mineralogy 6	5	Mineralogy 6	5
		Drawing 3	3
Total	18	Total	18

Military Science

Military Science

*JUNIOR YEAR

Mechanics 1, 2	5	Mechanics 3	5
Major, Minor, Free Electives	15	Mechanics 53	2
		Major, Minor, Free Electives	13
Total	20	Total	20

*SENIOR YEAR

Major, Minor, Free Electives	19	Major, Minor, Free Electives	19
Total	19	Total	19

MINING GROUP

Courses in Mining Engineering
Railway Engineering 104
Structural Design, Structural Engineering 10
Thermodynamics, Steam and Gas Engineering 3 and 4
Steam Laboratory, Steam and Gas Engineering 28
Direct Current Machinery, Electrical Engineering 131a
Alternating Current Machinery, Electrical Engineering 131b
Hydraulics 1
Economic Geology, Geology 111

*At the beginning of the junior year, the student must elect his major and minor studies as follows:
Major to consist of 30-40 credits in any one of the following groups.
Minor to consist of 15-20 credits in any except the major group.
Balance to make 152 credits, free electives.

METALLURGICAL GROUP

Courses in Metallurgy
Structural Design, Structural Engineering 10
Thermodynamics, Steam and Engineering 3 and 4
Steam Laboratory, Steam and Gas Engineering 27
Direct Current Machinery, Electrical Engineering 131a
Alternating Current Machinery, Electrical Engineering 131b
Physical Chemistry, Chemistry 130
Metallography, Chemical Engineering 119a
Electric Furnaces, Chemical Engineering 102
Economic Geology, Geology 111

GEOLOGICAL GROUP

General Geology, Geology 1 or 9
Structural Geology, Geology 114
Economic Geology, Geology 111
Petrology, Geology 108
Excavation, Mining 101
Mining Methods, Mining 103
Mine Valuations, Mining 104
Mine Administration 109
Stratigraphy, Geology 112
Metamorphic Geology, Geology 115
Lake Superior Geology, Geology 118
Oil Geology, Geology 123

Elective for Students in the College of Letters and Science

Students who plan to graduate in Engineering, after taking a degree in the College of Letters and Science, should aim to make the following elections during the undergraduate course. in order that the engineering course may be completed in two additional years:

Mathematics 51 to 55; Physics 1 or 51 and 52; Chemistry 1 or 2; Mechanical Drawing 1, 2 and 3; Topographical Engineering 2, 3, and 4, or Machine Design 1; Applied Mechanics 1 and 2; Electrical Engineering 140a and 140b; Chemical Engineering 18, 12, and 111.

It is well also to elect some or all of the freshmen and sophomore shop work as an extra study.

Graduation in More Than One of the Engineering Courses

Graduates in any of the engineering courses may graduate in any other engineering course after one year of additional study. Students who contemplate doing this should, however, make their elections, especially in the senior year, with this end in view.

DEPARTMENTS OF INSTRUCTION

Abbreviations in the announcement of courses: Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e. hours of credit. Unless otherwise stated, the number of credits per semester is given.

The unit of reckoning the credit is one hour of classroom work per week. Two hours of drawing, laboratory, field, or shop work (which require no outside preparation) count as one hour of classroom work.

Courses Given in the College of Letters and Science

For detailed description of courses given in the College of Letters and Science see Index under Astronomy, Bacteriology, Chemistry, Chemistry of Forest Products, English, Forestry and Wood Technology, Geology, Mathematics, Meteorology, Physics, Economics, German, French, and Spanish.

COURSES GIVEN IN THE COLLEGE OF ENGINEERING

AERONAUTICS

PROFESSORS MAURER, LARSON

1. **Aeronautics.** I; 2 cr.
2. **Aeronautics.** II; 2 cr.

CHEMICAL ENGINEERING

PROFESSOR KOWALKE; ASSOCIATE PROFESSOR WATTS; ASSISTANT PROFESSORS HOUGEN, FAHLBERG; INSTRUCTORS HARTWIG, RAMSAY, RAGATZ.

For Undergraduates

4. **Applied Electrochemistry.** I; 3 cr. Short course for juniors and seniors; not open to chemical engineers. Mr. Watts.

8. **Metallography for Mechanical Engineers.** II; 1 cr. Mr. Fahlberg, Mr. Hartwig.

12. Fuel and Gas Analysis. I or II; 2 cr. Prerequisites: Chemistry 2, 11. Mr. Ramsay, Mr. Ragatz.

15. Industrial Chemistry. I; 3 cr. Prerequisites: Chemistry 2, 11, Chemistry 120 or enrollment in same. Mr. Kowalke.

18. Engineering Materials. II; 2 cr. Prerequisite: Chemistry 2. Mr. Watts.

For Undergraduates and Graduates

101a. Applied Electrochemistry. I; 5 cr. Mr. Watts, Mr. Ramsay.

101b. Advanced Electrochemistry. II; 1 or more cr. Mr. Watts.

102. Electric Furnace. II; 4 cr. Mr. Watts, Mr. Hougen.

106. Batteries. II; 2 cr. Mr. Watts.

111. Chemical Machinery. II; 2 cr. Mr. Kowalke.

113. Gas Manufacture and Distribution. I; 2 cr. Mr. Kowalke.

114a. Chemical Manufacture. I; 4 cr. Prerequisites: Chemistry 2, 11, 120, Chemical Engineering 111. Required of chemical engineers as summer work, elective for others. Mr. Kowalke.

116. Applied Thermal Chemistry. Yr.; 4 cr. Mr. Hougen.

117a. Technical Pyrometry. I; 2 cr. Prerequisites: Chemistry 2, Physics 51, 52, Mr. Hougen, Mr. Ragatz.

117b. Advanced Pyrometry. II; 1 or more cr. Continuation of 117a. Mr. Hougen.

119a. Metallography. I or II; 3 cr. Prerequisites: Chemistry 2, Physics 1, 2 or 51. Mr. Fahlberg, Mr. Hartwig.

119b. Advanced Metallography. I or II; cr. to be arranged. Mr. Fahlberg.

120. Industrial Organic Chemistry. II; 2 cr. Prerequisite: Chemistry 120. Mr. Kowalke.

121. Analysis of Highway Bitumens. II; 2 cr. Mr. Ramsay.

122. Special Problems. II; 4 cr. Chemical Engineering staff.

123. Chemical Factory Apparatus. I; 2 cr. Mr. Hougen.

For Graduates

230. Chemical Engineering Research. Hours and credit by arrangement. Mr. Kowalke, Mr. Watts.

231. Seminary. Mr. Kowalke.

CITY PLANNING*

PROFESSOR SMITH.

For Undergraduates and Graduates

101. City Planning. I, II; 2 cr. Not elective by freshmen. Mr. Smith.

102. Industrial Housing. I, II; 2 cr. Not elective by freshmen. No prerequisites. Mr. Smith.

103. Real Estate Planning. II; 2 cr. Prerequisites: City Planning 101 or its equivalent. Suited to needs of students interested in real estate development. Mr. Smith.

COMMERCIAL MECHANICAL ENGINEERING

PROFESSOR LARSON; ASSOCIATE PROFESSOR HYLAND; MR. WOY.

For Undergraduates and Graduates

101. Engineering Administration. I; 3 cr. Mr. Woy.

102. Power Plant Design. II; 2 cr. Mr. Hyland.

103. Engineering Administration. Continuation of Course 101. II; 2 cr. Mr. Woy.

104. Mechanical Engineering Seminary. II; 1 cr. Open to seniors. Mr. Larson.

DRAWING

ASSOCIATE PROFESSORS MILLAR, ORTH; INSTRUCTORS BALDWIN, COOPER, DAUBNER, DOKE, KECK, LIVERMORE, MACKEY, SHIELS, WERRELL.

For Undergraduates

1. Elements of Drawing. I or II; 3 cr. Mr. Orth, Mr. Baldwin, Mr. Cooper, Mr. Daubner, Mr. Doke, Mr. Keck, Mr. Livermore, Mr. Mackey, Mr. Werrell.

2. Elements of Drawing. I or II; 3 cr. Prerequisite: course 1. Mr. Orth, Mr. Baldwin, Mr. Cooper, Mr. Daubner, Mr. Doke, Mr. Keck, Mr. Livermore, Mr. Mackey, Mr. Werrell.

*Students desiring work in planning and planting of public grounds, parks, and home grounds, see courses in Horticulture, College of Agriculture.

3. Descriptive Geometry. I or II; 3 cr. Prerequisites: courses 1, 2. Mr. Miller, Mr. Orth, Mr. Shiels, Mr. Daubner, Mr. Cooper.

4. Freehand Lettering. I or II; 1 cr. Prerequisites: courses 1, 2. Mr. Orth.

5. Elements of Drawing. Yr.; 1 cr. For chemistry students. Mr. Daubner.

6. Geological Mapping. II; 3 cr. Mr. Daubner.

7. Advanced Freehand Lettering. II; 1 cr. Mr. Baldwin.

ECONOMICS

PROFESSORS COMMONS, GILMAN, KIEKHOFER, SCOTT; ASSISTANT PROFESSORS GLAESER, JEROME, MILLER, PERLMAN; LECTURER WITTE.

For Undergraduates

1a. Elements of Economics. I or II; 4 cr. Prerequisite: sophomore standing. Mr. Kiekhofer and staff.

1b. Elements of Economics. I or II; 4 cr. Prerequisite: Economics 1a. Mr. Kiekhofer and staff.

5. Money and Banking. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Scott and staff.

For Undergraduates and Graduates

109. Commercial Law. Yr.; 4 cr. Prerequisite: senior standing or consent of instructor. Mr. Gilman.

122. Labor Problems. I; 3 cr. Prerequisite: Economics 1b. Mr. Perlman.

123. Labor Legislation. I; 3 cr. Prerequisite: Economics 1b. Mr. Witte.

130. Statistical Method. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Jerome and staff.

135. Railway Transportation. I or II; 3 cr. Prerequisite: Economics 1b. Mr. Miller and staff.

136. Railway Problems. II; 3 cr. Prerequisite: Economics 135. Given in alternate years with Economics 168. (Given 1922-23.) Mr. Miller and staff.

137. Corporation Finance. I; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5. Mr. Gilman and staff.

142. Public Utilities. Yr.; 2 cr. Prerequisite: Economics 1a and junior standing. Mr. Glaeser.

168. Railway Finance. II; 3 cr. Prerequisite: Economics 135. Given in alternate years with Economics 136. (Given 1921-22.) Mr. Miller and staff.

For other courses in Economics see announcement of the Department of Economics in the College of Letters and Science.

ELECTRICAL ENGINEERING

PROFESSORS BENNETT, JANSKY, ROOD; ASSOCIATE PROFESSORS WATSON, PRICE; ASSISTANT PROFESSORS CROTHERS, KELSO; INSTRUCTORS FULLER, KOEHLER, LYON, MEYERS, MCCONNELL, PETERS, SCOTT, SINGER, STRONG, WISE.

For Undergraduates and Graduates

102. Dynamo Laboratory. Prerequisite: course 141. Mr. Price and laboratory instructors.

104. Dynamo Design. II; 2 cr. Prerequisite: course 141. Mr. Watson.

112a. Alternating Current Laboratory. II; 2 cr. Mr. Price and laboratory instructors.

112b. Advanced Laboratory. I; 2 cr. Continuation of 112a.

116. Electric Circuits. I; 3 cr. Prerequisite: course 143a. Mr. Bennett, Mr. Peters.

122. Electric Testing. I; 2 cr. Prerequisites: courses 103, 143 or 131. Mr. Crothers, Mr. Wise.

125. Conference. I or II; 2 cr. Open to engineering seniors and graduates. Mr. Rood.

127. Electric Central Stations. Yr.; 3 cr. Open to engineering seniors and graduates. Mr. Rood.

129a. Electric Railways. I; 3 cr. Open to engineering seniors and graduates. Mr. Rood.

129b. Electric Railways. II; 3 cr. Open to engineering seniors and graduates. Mr. Rood.

130. Direct Current Laboratory. I; 2 cr. For mechanical engineers. Should be accompanied by course 144. Mr. Price and laboratory instructors.

132. Alternating Current Laboratory. II; 2 cr. Primarily for mechanical engineers. Prerequisite: course 130. Mr. Price and laboratory instructors.

133. Illumination and Photometry. II; 2 cr. Mr. Wise.

137. Power Distribution. II; 3 cr. Mr. Meyers.

140a. Fundamentals of Electrical Engineering. I or II; 3 cr. Introductory course for sophomore electrical engineers. Prerequisites: Physics 53, Mathematics 54. Mr. Bennett, Mr. Crothers, Mr. Peters.

140b. Electrical Engineering Laboratory. I or II; 2 cr. To accompany course 140a. Mr. Price and laboratory instructors.

141. Direct Current Machinery, Construction and Operation. I or II; 4 cr. Mr. Watson.

143a. Alternating Current Machinery. II; 4 cr. Mr. Watson.

143b. Alternating Current Machinery. I; 4 cr. Mr. Price.

144. Electrical Machinery. Yr.; 3 cr. Course starts second semester. Primarily for mechanical engineers. Prerequisite: Physics 52. Mr. Kelso.

147. Electrical Machinery. Yr.; 3 cr. Primarily for mining and chemical engineers. Prerequisite: Physics 52. Mr. Jansky and Mr. Meyers.

149. Direct Current Machinery. II; 3 cr. Primarily for civil engineers. Mr. Rood, Mr. Singer.

150. Direct Current Laboratory. II; 1 cr. To accompany course 149. Mr. McConnell, Mr. Singer.

154a. Radio Telegraphy. II; 3 cr. Dealing mainly with undamped waves. With laboratory work. Prerequisite: EE 141. Mr. Crothers, Mr. Koehler.

154b. Radio Telegraphy. I; 3 cr. Damped wave telegraphy. With laboratory work. Mr. Crothers, Mr. Koehler.

155a. Telephony and Telegraphy. I; 3 cr. Theory of instruments and lines. With laboratory work. Prerequisite: EE 143a. Mr. Crothers, Mr. Koehler.

155b. Electric Amplifiers and Oscillators. II; 3 cr. The properties of amplifier and oscillator circuits and of the characteristics of the trielectrode thermionic amplifiers. Prerequisite: EE 116. Mr. Peters, Mr. Koehler.

Signal Corps Courses. Courses 154a, 154b, 155a, and 155b are required of those electrical engineers who enroll in the signal corps unit of the reserve officers training corps which has been established in the University by the War Department. Men who enroll in this signal corps unit, after satisfactorily completing the course and meeting the military requirements may be commissioned in the Officers Reserve Corps if they so desire.

These courses are open as electives to electrical engineering students and to others who are taking equivalent training along mathematical and physical lines.

For Graduates

160. Advanced Individual Studies. I and II. One or more credits. The object of the course is to facilitate investigative work and to develop the student's initiative. The student is to submit reports on one or more engineering problems requiring analytical investigative work. The study may be of an economic, historical, statistical, theoretical or experimental type. Studies of unusual merit will be accepted as theses and filed in the University Library.

214. Advanced Dynamo Laboratory. I or II; 2 cr. Prerequisites: courses 112a, 143a, 143b. Mr. Price.

231. Transmission and Distribution of Power. Yr.; 3 cr. Mr. Bennett.

232. Advanced Theory of Electric Circuits. Yr.; 3 cr. Mr. Bennett.

ENGINEERING CONTRACTS AND SPECIFICATIONS

PROFESSORS MEAD AND CORP; INSTRUCTOR GUMPRECHT.

101. Contracts and Specifications. II; 2 cr.

ENGINEERING ENGLISH AND ENGINEERING JOURNALISM

PROFESSOR VAN HAGAN.

1a. Junior Engineering English. I; 1 cr. To supplement the English work of the freshman year. Prerequisite: junior standing and English 1b. Mr. Van Hagan.

1b. Junior Engineering English. II; 1 cr. Follows course 1a. Mr. Van Hagan.

2a. Senior Engineering English. I; 1 cr. Follows course 1b. Mr. Van Hagan.

2b. Senior Engineering English. II; 1 cr. Follows course 2a. Mr. Van Hagan.

10. Engineering Journalism. I or II; 1 cr. Mr. Van Hagan.

FORESTRY AND WOOD TECHNOLOGY

H. D. TIEMANN, J. A. NEWLIN.

101. Forestry and Utilization of Wood. I; 2 cr. Open to all engineering students. Mr. Tiemann, Mr. Koehler, Miss Gerry.

102. Wood Technology. II; 2 cr. For juniors, seniors and graduates. Mr. Tiemann, Mr. Koehler, Miss Gerry.

110. Structural Timbers. II; 1 cr. Prerequisite: Mechanics 2 and 3. Mr. Newlin, Mr. Hunt, Mr. Markwardt, Mr. Wilson, Mr. Koehler.

HYDRAULIC AND SANITARY ENGINEERING

PROFESSORS MEAD AND CORP; ASSISTANT PROFESSOR WARD; INSTRUCTORS GUMPRECHT AND RUBLE.

For Undergraduates

1. Elementary Hydraulics. I or II; 3 cr. Prerequisites: Mechanics 1, 2. Mr. Corp, Mr. Ward, Mr. Ruble.

2. Elementary Hydraulics. I or II; 4 cr. Similar to course 1 with additional recitation and laboratory work. Prerequisites: Mechanics 1, 2. Mr. Corp, Mr. Ward, Mr. Ruble.

For Undergraduates and Graduates

102. Testing of Hydraulic Machines. I; 2 cr. Prerequisite: course 1. Mr. Corp, Mr. Ruble.

103. Experimental Hydraulics. I or II; 1 to 5 cr. Prerequisite: course 1. Mr. Corp, Mr. Ward.

104. Water Power Engineering. I; 3 cr. Prerequisite: course 1. Mr. Mead, Mr. Gumprecht.

105. Hydraulic Machinery. II; 2 cr. Prerequisite: course 1. Mr. Mead, Mr. Ruble.

106. Sewage and Garbage Disposal. I; 1 cr. Mr. Corp.

110. Hydrology. II; 2 cr. Mr. Mead, Mr. Gumprecht.

111. Water Supply. I; 3 cr. Prerequisite: course 1. Mr. Mead, Mr. Gumprecht.

112. Sewerage, Drainage, and Irrigation. II; 3 cr. Prerequisite: course 1. Mr. Mead, Mr. Corp.

113a. Hydraulic Design. I; 2 cr. Prerequisites: courses 1, 110. Mr. Mead, Mr. Ward, Mr. Gumprecht.

113b. Hydraulic Design. II. Continuation of 113a. Prerequisites: courses 1, 110, 113a. Mr. Mead, Mr. Ward, Mr. Gumprecht.

115. Hydraulic Problems. I or II; 1 to 3 cr. Prerequisite: course 1 or 2. Mr. Corp.

MACHINE DESIGN

ASSOCIATE PROFESSOR HYLAND; ASSISTANT PROFESSORS MILLER, NEFF; INSTRUCTORS DAHLBERG, PUERNER.

For Undergraduates

1. Mechanism. I or II; 4 cr. Prerequisites: Mechanical Drawing 1, 2. Mr. Hyland, Mr. Dahlberg, Mr. Puerner.

2. Valve Gears. I or II; 1 cr. Prerequisite: Machine Design 1. Mr. Miller, Mr. Dahlberg.

3. Machine Elements. I or II; 4 cr. Primarily for mechanical engineers. Prerequisites: Machine Design 1, Mechanics 1, 2. Mr. Neff.

4. Advanced Machine Design. I or II; 4 cr. Prerequisite: Machine Design 3. Mr. Neff.

5. Machine Elements. I or II; 3 cr. Similar in scope to course 3. For electrical and chemical engineers. Prerequisites: Machine Design 1, Mechanics 1, 2, 3. Mr. Miller.

6. Advanced Machine Design. I or II; 2 cr. Similar in scope to Course 4. For electrical engineers. Prerequisite: Machine Design 5. Mr. Miller.

7. Chemical Machine Design. II; 2 cr. For chemical engineers. Prerequisite: Machine Design 5. Mr. Miller.

8. Patent Office Drawing. I or II; 1 cr. Requirements of U. S. Patent Office. Prerequisites: Mechanical Drawing 1, 2. Mr. Hyland.

11. Machine Testing. I or II; 1 cr. Mr. Neff, Mr. Puerner.

12. Advanced Machine Testing. II; 1 cr. Continuation of 11. Mr. Neff, Mr. Puerner.

For Undergraduates and Graduates

109. Design of Special Machines. II; 2 cr. Prerequisite: course 4 or 6. Mr. Neff.

110. Logging and Wood Working Machinery. II; 2 cr. Prerequisite: course 3 or 5. Mr. Hyland.

MECHANICS

PROFESSORS MAURER, WITHEY; ASSOCIATE PROFESSOR KOMMERS; ASSISTANT PROFESSOR ROARK; INSTRUCTORS ALEXANDER, FRISCH, TABOR, WIEPKING, WILSON.

For Undergraduates

1. Statics. I or II, first ten weeks; 3 cr. Prerequisite: Physics 51.

2. Dynamics. I or II, last eight weeks; 2 cr. Prerequisites: Mechanics 1, Mathematics 54.

3. Mechanics of Materials. I or II; 5 cr. Prerequisites: Mechanics 1, Mathematics 54.

51. Materials of Construction. I; 2 cr. Prerequisite: enrollment in or completion of Mechanics 3. For civil engineers.

52. Materials of Construction. II; 2 cr. Continuation of 51.

53. Materials of Construction. I or II; 2 cr. For electrical, mechanical and mining engineers. Prerequisite: enrollment in or completion of Mechanics 3.

54. Materials of Construction. II; 2 cr. For chemical engineers. Prerequisite: enrollment in or completion of Mechanics 3.

For Undergraduates and Graduates

106. Advanced Mechanics of Materials. II; 2 cr. Prerequisites: couses 2, 3. Mr. Maurer.

107. Advanced Technical Mechanics. I; 2 cr. Prerequisites: Mechanics 1, 2. Mr. Maurer.

108. Advanced Materials Laboratory. I; 2 or more cr. Prerequisite: Mechanics 51 or 53. Mr. Withey.

109. Graphics. II; 2 cr. Prerequisites: Mechanics 1, 2, 3. Mr. Kommers.

111. Ordnance. I; 2 cr. This and the following course cover stresses in guns and gun carriages, properties of materials used, design and proving of ordnance, general shop methods, and general information on manufacture and care of ammunition and explosives and on internal and external ballistics. For students in Ordnance Corps Unit and others with following prerequisites: Mechanics 1, 2, 3, and enrollment in or completion of 51 or 53; general chemistry. For detailed information concerning this unit see *Regulations of the University of Wisconsin Corps of Cadets*, copies of which may be secured from the Commandant. Mr. Roark.

112. Ordnance. II; 2 cr. Continuation of number 111. Mr. Roark.

MINING AND METALLURGY

PROFESSOR MCCAFFERY; ASSISTANT PROFESSORS OESTERLE, SHOREY; INSTRUCTOR BARKER.

12. Mine Surveying. II; 3 cr. Mr. Shorey.

101. Excavation and Tunneling. I; 3 cr. Mr. Shorey.

103. Mining Methods. Yr.; 3 cr. Mr. Shorey.

104. Valuation of Mineral Properties. II; 2 cr. Mr. Shorey.

105. Mine Engineering. Yr.; 3 cr. Mr. Shorey.

106. Mine Plant Design. II; 3 cr. Prerequisites: 101, 103, 104, 105. Mr. Shorey.

107. Ore Dressing. I; 5 cr. Prerequisite: Geology 6. Mr. Shorey.

109. Mine and Smelter Accounts and Administration. I; 2 cr. Lectures. Mr. McCaffery.

121. Assaying. II; 2 or 3 cr. Prerequisite: Chemistry 2. Mr. Barker.

122. General Metallurgy. II; 3 cr. Prerequisite: Chemistry 2. Mr. McCaffery.

123. Fire Metallurgy of Copper, Lead and Zinc. I; 3 cr. Prerequisite: course 122. Given 1919-1920 and alternate years. Mr. Barker.

124. Metallurgy of Iron and Steel. I or II; 2 cr. Mr. McCaffery.

125. Metallurgy of Minor Metals. II; 2 or 3 cr. Given 1919-1920 and alternate years. Mr. Barker.

126. Clay Products Manufacture. II; 2 cr. Mr. Shorey.

127. Hydrometallurgy of Gold, Silver, Copper, Lead and Zinc. I; 3 cr. Prerequisite: course 122. Given 1920-1921 and alternate years. Mr. Barker.

128. Iron and Steel Laboratory. I or II; 2 or more cr. Mr. Barker.

129. Non-ferrous Laboratory. I; 3 cr. Mr. Barker.

130. Physical Chemistry of the Metals. 2 cr. A detailed application of physical chemistry to metallurgical processes. Mr. Oesterle.

131. Foundry Metallurgy. I; 2 cr. Mr. McCaffery.

132. Manufacture of Coke. II; 2 cr. Mr. McCaffery.

135. Steel Works Power Plants. I; 3 cr. Mr. Bennett, Mr. Larson, Mr. McCaffery.

150. Economic Aspects of Mining. II; 3 cr. For students in economics and commerce, of not lower than junior standing. Mr. McCaffery.

For Graduates

210. Ore Dressing Laboratory. I or II; 2 or more cr. Mr. Shorey.

215. Milling Plant Design. II; 5 cr. Mr. Shorey.

220. Mine Development. I; 5 cr. Mr. Shorey.

225. Metallurgical Laboratory. I or II; 2 or more cr. Mr. McCaffery.

231. Iron Blast Furnace. I; 5 cr. Mr. McCaffery.

232. Converter and Open Hearth Steel. II; 5 cr. Mr. McCaffery.

235. Recovery of Non-Ferrous Metals. I; 3 cr. Mr. Barker.

Unnumbered Courses:

First Aid Training. Given in conjunction with Bureau of Mines experts. No credit. Required.

Mine Rescue Training. Given in conjunction with Bureau of Mines experts. No credit. Required of seniors.

RAILWAY ENGINEERING

PROFESSOR VAN HAGAN; INSTRUCTOR STIVERS.

1. Railway Curves. I or II; 2 cr. Prerequisites: trigonometry, elementary surveying. Mr. Stivers.

2. Theory of Railway Location and Construction. I; 3 cr. Prerequisite: course 1. Mr. Van Hagan.

22. Practice in Railway Location and Construction. Summer survey of two weeks. Prerequisites: course 2 and topographic engineering 106. Mr. Van Hagan and assistants.

For Undergraduates and Graduates

104. Railway Engineering. I; 2 cr. For electrical and mining engineers. Prerequisites: trigonometry, elementary surveying. Mr. Van Hagan.

105. Economics of Railway Engineering. I; 2 cr. Prerequisites: courses 2, 22. Mr. Van Hagan.

107. Advanced Railway Design. I or II; 2 cr. Open to seniors and graduates. Mr. Van Hagan.

108. Railway Signaling. II; 2 cr. Mr. Van Hagan.

110. Masonry Construction. II; 2 cr. Prerequisites: Mechanics 3, 51. Mr. Stivers.

111. Substructures. II; 1 cr. Prerequisite: course 110. Mr. Van Hagan.

112. Estimates and Valuations. II; 2 cr. For seniors and graduate students. Mr. Van Hagan.

ROADS AND PAVEMENTS

PROFESSOR SMITH.

For Undergraduates and Graduates

101. Country Roads. I, II; 1 cr. Designed especially for students desiring a short course. Mr. Smith.

102. Introduction to Construction and Maintenance. I; 2 cr. As a preparation for this course civil engineers are required to take a course in economic geology. Mr. Smith.

103. Advanced Design and Economics of Road Construction and Maintenance and Highway Transportation. II; 3 cr. Prerequisite: course 102. Mr. Smith.

104. Testing Road Materials. II; 3 cr. Includes the testing of macadam stone in highway laboratory and instruction given in the course on Analysis of Bitumens for Highways (Chemical Engineering 121). Mr. Smith.

Note: For course in highway bridges see Structural Engineering 112.

SHOP WORK

ASSISTANT PROFESSOR DABNEY, (SUPT.); INSTRUCTORS BRECKEY, CLARE, GOUDE, HITCHCOCK, LEHMAN, PAYTON, PETERS, SCHUMANN; ASSISTANTS LONGENECKER, MALONE, WALD.

1. Elementary Pattern Making. I or II; 1 cr. Mr. Lehman.

2. Bench Work in Iron and Steel. I or II; ½ cr. Mr. Dabney, Mr. Breckey, Mr. Peters.

3. Elementary Forge Work. I or II; ½ cr. Mr. Schumann, Mr. Malone.

4. Lathe Work in Metals. I or II; 1 cr. Mr. Breckey, Mr. Clare, Mr. Hitchcock, Assistant Wald.

5. Planing and Milling. I or II; 1 cr. Mr. Breckey, Mr. Hitchcock, Mr. Wald, Mr. Longenecker.

6. Tool Making. I or II; 2 cr. Prerequisites: courses 4, 5. Mr. Breckey, Mr. Clare, Mr. Hitchcock, Mr. Wald, Mr. Longenecker.

7. General Shop Work. I or II; 2 cr. Prerequisites: courses 4, 5, and 6. Mr. Breckey, Mr. Hitchcock.

8. Heat Treatment and Metallography. II; 2 cr. Required of mechanical engineers; not open to chemical engineers. Mr. Dabney, Mr. Fahlberg.

9. Advanced Pattern Making and Foundry Practice. II; 1 cr. Prerequisite: course 1. Regularly for seniors only. Mr. Payton, Mr. Goude, Mr. Lehman.

10. Industrial Practice. 4 cr. Not less than seven weeks of work, done outside the University, preferably under a well-developed system of methods and discipline. In exceptional cases credit may be secured by four weeks of vacation work in the University Shops.

12. Manufacturing Methods. I; 1 cr. Administration of course 7 and a study of methods used in local manufacturing plants. Regularly for seniors only. Mr. Dabney, Mr. Hitchcock, and Mr. Lehman.

13. Elementary Foundry Practice. I or II; 1 cr. Mr. Goude.

STEAM AND GAS ENGINEERING

PROFESSOR LARSON; ASSISTANT PROFESSORS AAGAARD, ANDERSON, BERGGREN; INSTRUCTORS ANDERSON, SPIETH, WILSON.

For Undergraduates

1. Thermodynamics. I; 4 cr. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Berggren, Mr. Aagaard.

2. Thermodynamics. II; 4 cr. Mr. Berggren, Mr. Aagaard.

3. Thermodynamics. I; 3 cr. For electrical, chemical, and mining engineers. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Larson, Mr. Anderson, Mr. Anderson, Mr. Spieth, Mr. Aagaard, Mr. Wilson.

4. Thermodynamics. II; 3 cr. Continuation of 3. Mr. Anderson, Mr. Anderson, Mr. Spieth.

7. Survey of Steam Engineering. II; 2 cr. For civil engineers. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Larson.

Laboratory Courses

MR. BERGGREN AND LABORATORY INSTRUCTORS.

22. Elementary Testing. II; 2 cr.

23. Advanced Testing. I; 2 cr. Continuation of 22.

25. Elementary Testing. II; 2 cr. For chemical engineers.

26. Advanced Testing. I; 1 cr. Continuation of 25. For chemical engineers.

28. Elementary Testing. II; 2 cr. For electrical engineers.

29. Advanced Testing. I; 2 cr. Continuation of 28.

30. Gas Engine Testing. I or II; 2 cr. Open only to seniors in the College of Engineering.

For Undergraduates and Graduates

105. Steam and Gas Engine Calculations. I; 2 cr. Prerequisites: courses 1, 2 or 3, 4. Mr. Larson.

106. Continuation of Course 105. II; 2 cr. This course can be taken without having had course 105, but the same courses are prerequisite. Mr. Larson.

108. Heating, Ventilating, and Refrigerating. I; 3 cr. Prerequisites: courses 1, 2 or 3, 4 or 7. Mr. Larson.

111. Compressed Air. II; 2 cr. Prerequisites: courses 1, 2 or 3, 4 or 7. Mr. Berggren.

Laboratory Courses

MR. BERGGREN AND LABORATORY INSTRUCTORS.

124. Advanced Commercial Testing. II; 1 cr.

127. Short Course in Testing. I; 2 cr.

130. Research. Yr.; credit according to work done. Open to graduates and others by consultation.

STRUCTURAL ENGINEERING

PROFESSORS TURNEAURE, KINNE; INSTRUCTOR SLOAN.

For Undergraduates

2. Stresses in Simple Structures. II; 4 cr. Prerequisite: Mechanics 1. Mr. Kinne, Mr. Sloan.

3. Design of Roof Trusses and Plate Girders. I; 3 cr. Prerequisites: course 2, Mechanics 3. Mr. Kinne, Mr. Sloan.

4. Design of Railway Bridge Trusses. II; 2 cr. Prerequisites: courses 2, 3. Mr. Kinne, Mr. Sloan.

10. Structural Design. I and II; 2 cr. For mechanical, electrical and mining engineers. Prerequisites: Mechanics 1, 3. Mr. Kinne.

For Undergraduates and Graduates

105. Principles of Reinforced Concrete. I; 3 cr. Prerequisites: Mechanics 1, 3. Mr. Turneaure, Mr. Kinne, Mr. Sloan.

106. Concrete Arches. I; 2 cr. Prerequisites: Mechanics 1, 3, course 2 and concurrent registration in course 105. Mr. Kinne.

107. Statically Indeterminate Structures. I; 2 cr. Open to seniors and graduates in civil engineering. Prerequisite: course 2. Mr. Kinne.

108. Statically Indeterminate Structures and Secondary Stresses. II; 2 cr. Prerequisites: courses 2, 107. Mr. Turneaure.

109. Design of Swing Bridges. II; 2 cr. Prerequisites: courses 2, 3, 4, 107. Mr. Kinne.

111. Principles of Reinforced Concrete. II; 2 cr. Continuation of 105. Mr. Turneaure, Mr. Kinne.

112. Highway Bridges and Culverts. II; 2 cr. Prerequisites: courses 2, 3, 4, 105. Mr. Kinne.

TOPOGRAPHIC ENGINEERING

ASSOCIATE PROFESSOR OWEN; INSTRUCTOR BEEBE; MECHANICAL ASSISTANT ROMERS.

For Undergraduates

1. Elementary Surveying. I; 2 cr. Mr. Owen.

2. Elementary Surveying. II; 2 cr. Mr. Owen.

3. Land Surveying. I; 3 cr. Mr. Owen.

For Undergraduates and Graduates

104. Advanced Surveying. II; 3 cr. Continuation of 3. Mr. Owen.

105. Elementary Geodesy. II; 2 or 3 cr. Mr. Owen.

106. Summer School of Surveying. Field work illustrating all courses given in regular session. Four weeks from Friday of examination week, second semester. Prerequisites; courses 3 and 104, or 108. Mr. Owen, Mr. Beebe.

107. Advanced Geodesy. I; 2 cr. Continuation of 105. Mr. Owen.

108. Short Course in Surveying. I or II; 3 cr. For mechanical and electrical engineers. Mr. Beebe.

109. Rapid Topography. II; 2 cr. Mr. Beebe.

110. Mining Surveying. I; 2 cr. Mr. Beebe.

THE COLLEGE OF AGRICULTURE

H. L. RUSSELL, DEAN.

General Information

The College of Agriculture is one of the general divisions of the University. Instruction in the general sciences, languages, and mathematics is given to agricultural and home economics students in other colleges of the University; but for the purely agricultural and home economics subjects, separate buildings, equipment, and staff of instructors are maintained. Students enter the University with the same standing as students of other colleges and have the advantages incident to a large university, such as the general laboratories, libraries, and student organizations. Aside from the purely instructional work of the College the facilities for research afford special opportunities for both regular and advanced students to secure a knowledge of the best methods in agriculture and home economics.

Buildings

The buildings occupied by the College of Agriculture are located at the west end of Observatory Hill. They have been erected and equipped with particular attention to the special needs of the work in the various departments.

The administrative offices of the College and Experiment Station, Agricultural Extension, Farmers' Institutes, lecture rooms, laboratories, and offices for several of the departments are located in Agricultural Hall. At the rear of the main building is a large wing which furnishes quarters for the library and reading room in the basement. The second and third floors are occupied by an auditorium with a seating capacity of 750, which is used for general assemblies and class work.

West of the main building is a group comprised of Hiram Smith Hall, the Dairy Laboratory, and the Dairy Machinery Laboratory.

The Soils Building, with greenhouses adjoining, provides lecture rooms and laboratories for the instructional and research work of the department, as well as offices for the State Soil Survey.

The Horticulture and Plant Pathology Departments are located in the Horticultural Building, which, with the adjoining greenhouses, is provided with every modern equipment for instruction and research in these subjects.

The Agronomy Building contains the offices of the department, a large grain judging room, laboratories for seed testing and inspection, grain curing, cleaning and storage of seed grains.

The Agricultural Engineering Building provides offices, lecture and drafting rooms, power and farm machinery laboratories, also a laboratory for smaller farm tools and implements and a concrete construction laboratory.

The Departments of Agricultural Chemistry and Genetics, and offices for the Poultry Department are located in the Agricultural Chemistry Building. It contains large laboratories, and assembly room with seating capacity of 400, in addition to special laboratories for advanced students and the chemistry laboratories of the Experiment Station, including those of the Feed and Fertilizer inspection service.

The Department of Home Economics is located in the Home Economics Building, where offices, classrooms, and laboratories are provided, and in the practice cottage where the work in household administration, house decoration, and dietetics has ample scope for practical solution. The department is provided with all the necessary furnishings and apparatus to give thorough instruction in the subjects of house sanitation, art and design, food preparation, dietetics, textiles, sewing, dressmaking, house decoration and institutional economics, practice in the latter being given in the central kitchen and the cafeteria of the University Commons and the Rendezvous tea room on Monroe Street.

The Live Stock Pavilion provides a large arena, which is used for stock judging work and exhibition purposes. The pavilion has seating arrangements for 2,500 people. Beneath the amphitheatre seats there are stalls for the housing of the horses belonging to the University Farm. In addition to this there are offices, operating room, and dispensary for Veterinary Science.

The Poultry Building provides offices and classrooms. Pens of all of the important breeds are provided and practical instruction is given in all lines of poultry raising. A separate research poultry plant is maintained on an outlying portion of the University Farm. The Economic Entomology Department has a building by itself.

The University Farm buildings include barns for the horses,

cattle, sheep, and swine as well as two large stock judging rooms Other buildings are provided for storing farm machinery, silage, manure, and tobacco.

A group of buildings devoted exclusively to the manufacture of hog cholera serum has been erected within the last few years on one portion of the University Farm. The Legislature of 1915 provided for the erection of a serum laboratory which has been constructed of concrete and steel and provides excellent facilities for the production of hog cholera serum.

Farm Lands

The College of Agriculture is provided with two farms, the University Farm and the Hill Farm, totaling about 746 acres of tillable land. These farms are operated to facilitate both instruction and research in agriculture.

Live Stock

The university herds and flocks represent the principal breeds of dairy and beef cattle, draft horses, swine, sheep, and poultry, including many individuals that are well-known prize winners.

Library

The Agricultural College Library includes about 20,000 bound volumes and 16,000 pamphlets relating to agriculture and home economics. This library is a part of the general University Library, but is kept in special quarters in Agricultural Hall, so as to be readily available to students in this College. It is especially strong in the files of scientific agricultural journals, both American and foreign, and the record books of pure bred animals. A trained librarian is in attendance to assist students.

Organizations

Several societies, maintained by the agricultural students, meet weekly to discuss questions related to their special interest. These organizations are for drill in parliamentary practice, training in debate, as well as for the discussion of scientific and practical questions. The Agricultural Literary Society discusses general questions in agriculture. The Euthenics Club is an or-

ganization of students in Home Economics to promote intellectual and social intercourse and stimulate greater interest in vital problems of the day.

The Agricultural College Federation (A. C. F.) is an organization of all students of the College to foster college activities and promote the general welfare of the Agricultural College. The Saddle and Sirloin Club is a student organization of those interested in animal husbandry. The Grafter's Club is for those interested in horticulture. Young women taking agriculture have the Agricultural Women's Association (A. W. A.).

An Agricultural Experiment Association with a paid membership of about 1,500 is maintained by students of the College of Agriculture, both past and present, for the purpose of cooperating with the College and Experiment Stations in advancing the agriculture of the commonwealth. By means of this organization, the members of which are located in all sections of the state, the College is in close touch with the great body of Wisconsin farmers.

A chapter of the national honorary agricultural fraternity, Alpha Zeta, and a chapter of the national honorary home economics sorority, Omicron Nu, are maintained by faculty and student members. The students publish a monthly magazine, *The Country Magazine*, under the direction of the department of Agricultural Journalism. Inter-mural athletics are emphasized and the Nelson trophy for the winning college has been awarded several times to the Agricultural College.

Special Facilities for Study

In the various departments of the College of Agriculture special lines of research are continually in progress, affording properly qualified students excellent opportunities to secure training of special character.

Farm Experience

Before graduating from the Four-year Course in Agriculture a student must have had at least six months of actual farm experience satisfactory to the executive office of the College of Agriculture.

Before a Middle Course student in Agriculture can begin the second year of his work he must have had at least one year of

practical farm experience satisfactory to the executive office of the College of Agriculture.

The College of Agriculture maintains an employment bureau to aid students in securing positions on farms where they may gain the required farm experience.

Plan of the College Activities

The work of the College of Agriculture is conducted on a threefold basis. Each department aims:

First, to give instruction to students at the University.

Second, to develop science through investigation and experiment.

Third, to disseminate information among the farmers and farm women of the state by means of publications, farmers' courses, institutes, and the agricultural extension service.

Fees and Expenses

See pp. 80ff.

Courses of Instruction

The following courses have been arranged to meet the needs of students of various classes.

Graduate Courses offer to advanced students opportunities for professional training and original investigation, made possible through an active Experiment Station, associated with numerous scientific laboratories. The special lines of study in agriculture and home economics, will be left largely to the selection of the student. Students may participate in experiments in progress, and after suitable experience, conduct independent investigations. When contributions to knowledge of permanent value are made they may be published through the bulletins with proper credit to the contributor.

Long Courses in Agriculture or Home Economics. These four-year courses embrace general training in chemistry, physics, biology, bacteriology, and other branches which have applications in agriculture or home economics. The fields are so broad, however, that it is impossible for the student to pursue in four years all the technical courses offered in addition to acquiring the necessary fundamental studies, and hence much liberty of election is allowed. ture.

Middle Course in Agriculture consists of two full college years and is planned especially for those who wish greater specialization in agriculture with less of general scientific training. The first year embraces essentially the work of the first year of the Long Course, with the exception of Physics 61 and Botany 1. In the second year the time is devoted very largely to elective work. Before a student may enter his second year of this course he must have had at least one full year of practical farm experience.

Course for the Training of Teachers. Graduates of the Courses in Agriculture or Home Economics, fulfilling the special educational professional requirements will be entitled to receive a license to teach agriculture, home economics, or the vocation of homemaking and a general license to teach other subjects. (See pp. 283ff. of this catalogue; also the Long and Middle Course Circular and Home Economics Circular.)

Summer Session Courses include work in Agricultural bacteriology, agricultural chemistry, agricultural economics, agricultural education, agricultural engineering, agronomy, animal husbandry, dairying, plant pathology, soils and home economics. The home economics work includes courses in art and design, millinery, food study and cookery, dietetics, research in nutrition, teaching home economics, sociological study of the family and extension work.

Short Course in Agriculture for two winter terms of fifteen weeks each is provided for those who can devote only a limited time to study, and who, therefore, desire the greatest amount of directly useful knowledge that can be acquired in the brief time allowed. This course begins November 15, and closes March 16. An illustrated circular describing this course may be had on request to Prof. J. A. James, College of Agriculture, Madison, Wis.

Winter Dairy Course. This course is open to persons who have had at least six months' experience in a creamery or cheese factory and covers one term of twelve weeks, beginning about November 1. The course is designed to train creamery butter makers and factory cheese makers in the science and practice of their respective lines. Certificates are given to those who satisfactorily complete the full course and have worked in a creamery or cheese factory for two seasons of not less than seven months each, one before and the other after the period spent in the Dairy Course. An illustrated circular describing this course in detail will be sent upon application to Prof. E. H. Farrington, College of Agriculture, Madison, Wis.

Summer Dairy Course. This course is intended for beginners or those having little practical knowledge of creamery or dairy work. Students are admitted at any time during the spring and summer after March 1. They are expected to remain at least ten weeks, although they may continue the work longer, if desirable. Laboratory exercises and theoretical instruction are given as required.

Extension Courses Given at the University

Farmers' Week. This is a popular course of addresses, demonstrations, and exercises, covering a period of one week, designed to give busy farmers the most useful instruction and practice in the science of agriculture in the shortest possible time at a season when they can be away from home for a brief period. This course, early in February, is given by the staff of the College of Agriculture, assisted by other speakers. Programs may be had upon application to Prof. K. L. Hatch, College of Agriculture, Madison, Wis.

Women's Week in Home Economics. This course for one week is designed to give women practical and helpful instruction in the various phases of home economics. The plan of instruction includes lectures and demonstrations in all phases of home management. The course is held at the same time as the Farmers' Course to afford an opportunity for farmers' wives and daughters to attend. Detailed information will be furnished upon request to Prof. Abby L. Marlatt, Madison, Wis.

Special Dairy Course. This is a week's course of lectures, conferences, and demonstrations, designed to meet the needs of creamery and cheese factory operators and managers, and to give them advanced instruction in connection with problems of management of their establishments as well as to inform them on recent advances in the science of dairying. The course is held at the time of the Farmers' Course. A special course for Cow Testing Association men is held at the same time. Detailed programs may be secured upon application to Prof. E. H. Farrington, College of Agriculture, Madison, Wis.

Young People's Week. A week's course of lectures, demonstrations and exercises which are of interest to farm boys and girls is held each year during Commencement week. Those who have won scholarships in Boys' and Girls' Club Work, pursue this course. Each day, special classes for the girls in attendance will

be held at the Department of Home Economics. For further information, address Prof. T. L. Bewick, College of Agriculture, Madison, Wis.

Terms of Admission

See pp. 108ff.

Fellowships and Scholarships

See Index.

A. J. Horlick Scholarship

See p. 91.

Omicron Nu Scholarship

See p. 408.

Loan Fund

See p. 94.

Degrees

The degree of Bachelor of Science (Agriculture) is conferred upon students who successfully complete the Long Course in Agriculture.

The degree of Bachelor of Science (Home Economics) is conferred upon those completing the four-year Course in Home Economics.

The title of Graduate in Agriculture will be conferred upon students who complete the Middle Course in a satisfactory manner.

The degree of Master of Science is conferred upon agricultural or home economics graduates who complete at least one year of advanced study at the University and present an acceptable thesis on a topic approved by the agricultural faculty.

Certificates

Students who complete in a satisfactory manner the Short Course or Dairy Course will be granted appropriate certificates.

OUTLINE OF THE LONG COURSE IN AGRICULTURE

In calculating the hours per week for the various studies, two hours of laboratory, field, or barn practice count as one hour of classroom work, which is the equivalent of one credit in this outline. Required subjects outside the College of Agriculture (marked L & S) will be found catalogued under the College of Letters and Science.

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a (L & S)	3	English 1b (L & S)	3
Chemistry 1a (L & S)	5	Chemistry 1b (L & S)	5
Physics 61 or Botany 1 (L & S)	5*	Botany 1 or Physics 61 L & S)	5*
Animal Husbandry 1 or Agronomy 1	3*	Agronomy 1 or Animal Husbandry 1	3*
Total	16	Total	16
Military Drill		Military Drill	
Physical Education		Physical Education	
Convocation			

Sophomore Year

Chemistry 11 Ag. (Quan.) (L & S)	3	Agr. Chemistry 1 and 2	5
Zoology 3 (L & S)	3	Soils 1	5
Agr. Bacteriology 1	5	Mathematics 71 (L & S)	4†
Agricultural option	3	Agricultural option	3
Electives	2		
Total	16	Total	17
Military Drill		Military Drill	
Physical Education		Physical Education	

*Students will elect one of these subjects the first semester of the freshman year and will be required to take the alternate subjects in second semester.

†Mathematics 51 (5 credits) may be taken instead of Mathematics 71 by students intending to major in Agricultural Engineering. Students electing Mathematics 51 should consult the chairman of the Department of Agricultural Engineering before making this selection.

Junior Year

First Semester	Credits	Second Semester	Credits
Agricultural Economics 1	5	Botany 146 or Physiology 3 (L & S)	4‡
Electives	12	Electives	13
Total	17	Total	17

Senior Year

Major	5	Major	5
Electives	12	Electives	12
Total	17	Total	17

Agricultural Economics, Dairy Husbandry and Agricultural Journalism—Economics 1b
Agricultural Engineering—Advanced Mathematics
Agricultural Education—Psychology 1 and Education 90

Agricultural Options. The student must choose one course from each of the following groups:

First Semester	Credits	Second Semester	Credits
Agricultural Engineering 1	3	Dairy 1	3
Horticulture 1	3	Horticulture 3	3
Poultry 1	3	Economic Entomology 1	3
Veterinary Science 1	3		

If horticulture is chosen the first semester, it cannot be chosen as the optional subject for the second semester.

General Requirements

The total requirements for graduation are 133 credits in addition to military drill, convocation and physical education. The same number of grade points (133) are also required for graduation. See p. 97.

Electives to the amount of ten credits must be taken outside the College of Agriculture, and with the approval of the advisor, students may elect as many as forty credits outside the College.

Students of the Long and Middle Courses may take sixteen to eighteen credits each semester, exclusive of drill and physical education. Electives may be added to make a total of twenty credits provided the student has received a standing of at least 85 per cent in each subject for the preceding semester. All students (including seniors) must carry at least 16 credits each semester unless excused by the Executive Committee.

‡Students majoring in the following departments will take the following subjects in the College of Letters and Science instead of Plant Physiology or Animal Physiology.

Thesis may be required at the option of the several departments. If required it must represent some phase of the student's work in his major study, four credits being given. The instructor in charge of the major subject will act as the student's adviser. For farm experience requirement see p. 343.

A major shall consist of a minimum of ten elective credits in one department. A major should be chosen at the beginning of the junior year. The major cannot be changed after registration for the first semester of the senior year.

OUTLINE OF MIDDLE COURSE IN AGRICULTURE

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a (L & S)	3	English 1b (L & S)	3
Chemistry 1a (L & S)	5	Chemistry 1b (L & S)	5
Animal Husbandry 1 or Agronomy 1	3*	Agronomy 1 or Animal Husbandry 1	3*
Agricultural option	3†	Agricultural option	3†
Elective	2	Elective	2
Total	16	Total	16
Military Drill		Military Drill	
Physical Education, Convocation		Physical Education	

Sophomore Year

Agr. Bacteriology 1	5	Agr. Chemistry 1	3
Soils 3	3	Electives	14
Electives	9		
Total	17	Total	17
Military Drill		Military Drill	
Physical Education		Physical Education	

The total requirements for graduation in the Middle Course are 66 credits. Sixty-six grade points are also required. All Middle Course students are required to take convocation and two full years of military drill and gymnasium work.

The student shall select his major subject at the beginning of the second year and shall consult the Assistant Dean for assignment to an adviser. Before entering this year, a student must have had at least one year of practical farm experience satis-

*Students will elect one of these subjects the first semester and the other will be required in the second semester.
†See "Agricultural Options," above.

factory to the executive office of the College of Agriculture. (See p. 343.) A maximum of six elective credits may be taken outside the College of Agriculture.

Students taking the Middle Course and desiring to transfer to the Long Course must be prepared to spend more than the usual four years in order to complete the requirements.

Special Adaptations of Agricultural Courses for the Preparation of Teachers

Middle Course

Graduates of the Middle Course who complete Education 90 for two credits; the course in Agricultural Education 1, four credits; Agronomy 140 for two credits and Animal Husbandry 128, two credits, will be recommended by the Director of the School of Education to receive a special license to teach agriculture in the schools of Wisconsin.

Long Course

Graduates of the Long Course properly registered in the School of Education presenting credit in the following special work will be entitled to receive the University Certificate in Agriculture upon recommendation of fitness by the professor of agricultural education; Philosophy 1, three credits; Agricultural Education 1, four credits; Education 90, two credits, Education A, two credits; Animal Husbandry 128, two credits; Agronomy 140, two credits.

Students registered in the School of Education who fulfill the following requirements in education, and receive the approval of the College, shall receive the University Teachers Certificate and the University Certificate in Agriculture; Philosophy 1, three credits; Education 41 or 11, three credits; Education 90, two credits; Agricultural Education 1, three credits, Education A, two credits, and Animal Husbandry 128 or Agronomy 140, two credits.

See pages 283ff., School of Education.

OUTLINE FOR COURSES IN HOME ECONOMICS

The Department of Home Economics offers the following courses which deal with the principles which underlie the proper management of the home, care of children, hygienic and sanitary conduct of institutions, and the economic conditions affecting the work of women.

The courses are planned to meet the needs of six classes of students:

1. Those students who desire a general knowledge of the subject matter as a basis for application in the study of the general arts and sciences as a part of a liberal education;
2. Those students who desire to make a detailed study of home economics in its relation to the arts and sciences which are fundamental in the management of the home;
3. Those students who wish to teach home economics in the secondary schools and in higher institutions;
4. Graduate students who have the requisite knowledge to benefit by research in subjects connected with the home;
5. Those who wish to prepare themselves for other vocations than teaching or homemaking, or for vocations which can be carried on in connection with other lines of work;
6. Those who wish to prepare themselves for teaching the vocation of homemaking in the vocational and continuation schools of the state. (See outline of course for Vocational Education.)

Students entering with two units of foreign language may continue the language for 8 credits to complete the language requirement. Students entering with no foreign language or beginning a new language to complete the language requirement will be required to take 16 credits in foreign language in the University. The 8 credits of beginning language will be counted as electives. Students entering with four units of one foreign language or five units in two foreign languages may substitute electives for the language requirement of the Course.

Women taking the Course in Home Economics are granted the same privilege of residence in Chadbourne Hall and Barnard Hall, the women's dormitories, and in the use of the women's gymnasium, etc., as other women of the University.

Required Work for Freshmen and Sophomores in all Majors

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a (L & S)	3	English 1b	3
Foreign Language, 2d year	4	Foreign Language, 2d year	4
Chemistry 1a (L & S)	5	Chemistry 1b	5
Home Economics 2	3	Home Economics 3	3
Home Economics 9	1		
Total	16	Total	15
Convocation		Physical Education	
Physical Education			

Sophomore Year

Physics 65 (L & S)	3	Physics 65 (L & S)	3
Agricultural Chemistry 3	5	Bacteriology 4	5
Physiology 1a (L & S)	3	Home Economics 50	3
Home Economics 5	2	Electives	4
Electives	2		
Total	15	Total	15
Physical Education		Physical Education	

Majors in Home Economics

At the beginning of the junior year, the student may choose one of the majors indicated in the following paragraphs. The requirements for a major in home economics are not less than 25 credits nor more than 32 credits in strictly home economics subjects inclusive of the thesis taken during the junior and senior years. Home Economics 109 and teachers courses 121 and 124 are counted as education and not as technical home economics.

Major in General Course

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 11	3	Home Economics 8	4
Home Economics 7	4	Home Economics 6	4
Home Economics 4	3	Home Economics 11	3
Electives	5	Electives	4
Total	15	Total	15

Senior Year

First Semester	Credits	Second Semester	Credits
Home Economics 110	4	Home Economics 109	4
Thesis	2	Thesis	2
Electives to be chosen as indicated below	9	Electives to be chosen as indicated below	9
Total	15	Total	15

Electives

Opportunity is given in the junior and senior years for the election of related courses of study in various lines adapted to the requirements of the students.

The following electives are suggested (31-33 free electives):

A. As a part of a liberal education: Economics—elements of economics, social psychology, poverty and relief, methods of social service, statistics; **History**—medieval, United States, English, ancient, history of the West; **English**—general survey, study of literature, Shakspere; **Art**—fine arts.

B. For those preparing to become instructors of general home economics in high schools or vocational school; Teachers certificate requirements: Philosophy—psychology; **Education**—educational technique, principles of education, humanics or mental development, or educational psychology, Home Economics teachers course, and Education A (directed teaching) to make a total of 15 credits.

Teaching minors which have been popular in connection with home economics majors: English—15 credits including general survey and advanced composition; **History**—16 credits in addition to teachers course; **Mathematics**—12 credits from commercial algebra, elementary mathematical analysis, mathematics for agricultural students; projective geometry (Drawing 3), teachers course; **Chemistry**—10 credits plus the teachers course; **Physics**—10 credits plus the teachers course; **Botany**—10 credits plus the teachers course; **Physiology**—11 credits, including physiology, bacteriology, hygiene.

C. For those desiring to be welfare workers, visiting housekeepers, social settlement workers: Economics minor—elements of economics, and two courses from each of the following groups to make a total of 15 credits; social problems, social psychology, general sociology, Americanization; social origins, poverty and relief, methods of social service, criminology and penology.

D. For those preparing to become home demonstration agents: Minor in Agriculture; Speech—extempore speaking; **Agricultural Journalism**—elementary and advanced.

If the student elects the food major the following outline will be followed:

Major in Food and Nutrition

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 4	3	Home Economics 6	4
Home Economics 7	4	Electives, in any college	11
Electives, in any college	8		
Total	15	Total	15

Senior Year

Home Economics 110	4	Home Economics 109	4
Home Economics 125	3	Thesis	2
Thesis	2	Electives, in any college	9
Electives, in any college	6		
Total	15	Total	15

Group Electives (in addition to requirements of food major). (35 free electives).

A. Instructor in college or in high schools: See requirements for teachers certificate, page 286.

B. Dietitian in hospital or in public or private clinic: Chemistry—quantitative analysis, organic chemistry; **Economics**—elements of economics, social psychology, poverty and relief; **Psychology**—course 1 and experimental psychology for premedical students; **Physiology**—physiological chemistry; **Medicine**—histology and organology, advanced clinical laboratory work; **Institutional Economics**—organization and administration of institutions; institutional laundry management; tea room, restaurant, and hotel management; institutional equipment.

C. Hospital administration: Those taking a food major may elect courses in physiological chemistry, pharmacology, anatomy, clinical medicine and hospital practice which will equip them to meet the requirements for the bachelor of science degree and part of the requirements for the registered nurse certificate. The hospital practice work will be taken in connection with the Bradley Memorial Hospital, the University Infirmary and local and state hospitals. To fulfill the requirement for a registered nurse each student must take one graduate year in residence in an approved hospital. Suggested electives are botany, zoology, organic chemistry, quantitative chemistry, embryology, history, English literature, pyschology, economics. (Elementary Latin equivalent to two years in high school should have been taken before beginning this course. A reading knowledge of French is desirable.)

D. Institution economics: Economics—elements of economics, elements of accounting, theory and practice of accounting, cost accounting, social psychology, poverty and relief; **Institutional Economics**—organization and administration of institutions; large quantity cooking; institutional laundry management; tea room, restaurant, and hotel management; institutional equipment.

E. Assistant food chemist (in board of health or commercial laboratory): **Chemistry**—quantitative analysis, organic chemistry, water analysis, chemistry of foods and their adulterations; **Bacteriology**—bacteriological technique, food bacteriology.

F. Research in nutrition: college, sanitarium, or food manufacturing company: Chemistry—quantitative analysis, organic chemistry; **Zoology**—microscopic anatomy and micro-technique; **Anatomy**—histology and organology; **Clinical Medicine**—advanced clinical laboratory work; **Physiology**—physiological chemistry; **Home Economics**—research, topical work.

G. Applied bacteriology. Students who minor in food may include beyond their sophomore year such detailed work in applied bacteriology as will equip them to become bacteriological technicians in the various laboratories maintained in connection with municipal water and sewerage plants, with manufactories of biological products, with milk plants, as well as with public health laboratories, hospital laboratories, private laboratories in physicians' offices, and in laboratories in connection with public and private sanatoria. There is a constantly growing demand for such technicians, and many of the home economics graduates have found the work both attractive and stimulating. In addition to the required work as indicated in the outline for junior and senior years, on the advice of the major professor, appropriate electives may be taken in zoology, botany, plant pathology or chemistry.

Major in Textiles

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 7.....	4	Home Economics 8.....	4
Home Economics 11.....	3	Home Economics 11.....	3
Electives, in any college...	8	Electives, in any college...	8
Total.....	15	Total.....	15

Senior Year

Home Economics 110.....	4	Home Economics 109.....	4
Home Economics Electives.	3**	Home Economics Electives.	3
Thesis	2	Thesis	2
Electives, in any college...	6	Electives, in any college...	6
Total.....	15	Total.....	15

Group electives (33 free electives):

A. Instructor in high or vocational schools: Philosophy—psychology; **Education**—Educational technique, principles of education, humanics or mental development or educational psychology, Home Economics teachers course, and Education A (directed teaching) to make a total of 15 credits; **Speech**—extempore speak-

**Six credits must be elected from the following courses: Home economics 20, 32, 96, 97, 101, 102, 103, 104.

ing; **Economics**—elements of economics, social psychology, poverty and relief; **History**—history of the United States, medieval, English; **Chemistry**—quantitative analysis, organic chemistry.

B. Textile expert in retail store or manufacturing establishment: Chemistry—quantitative analysis; organic chemistry; **Economics**—elements of economics, statistics, sales administration,‡ factory and office administration,‡ social psychology; **Philosophy**—principles of advertising; **Speech**—extempore speaking.

C. Costume designer: Economics—elements of economics; **History**—medieval, English, ancient; **Fine Arts; Manual Arts**—freehand drawing and perspective, applied design in metal.

D. Interior decorator: Economics—elements of economics; **History**—medieval, English, ancient; **Fine Arts; Manual Arts**—elements of mechanical drawing, elementary bench woodwork, furniture and cabinet design and construction, freehand drawing and perspective.

Major in Applied Bacteriology

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 4	3	Home Economics 6	3 or 4
Home Economics 7	4	Zoology 111	3
Agricultural Bacteriology*	3	Agricultural Bacteriology*	4
Electives †	6	Electives†	5
Total	15	Total	15

Senior Year

Home Economics 110	3	Home Economics 109	4
Chemistry 113	1	Electives	9
Thesis	2	Thesis	2
Electives†	9		
Total	15	Total	15

Vocational Education Major in Homemaking (Smith-Hughes). In compliance with the request of the State Board of Vocational Education and in cooperation with the Federal Board under the Smith-Hughes bill, the University is offering a four-year course designed to equip teachers of homemaking in the voca-

‡Must be taken in excess of 120 credits for graduation.

*Two of the following courses are required: dairy bacteriology, bacteriology technique, food bacteriology, medical bacteriology A total of twenty elective credits in bacteriology is required for the major.—See Home Economics Circular.

† Suggested electives are: **Home Economics**—advanced dietetics: **Agricultural Bacteriology**—research, seminary; **Zoology**—comparative anatomy of vertebrates; **Botany**—plant physiology; **Plant Pathology**—diseases of plants, methods in plant pathology; **Economics**—elements of economics, poverty and relief.

tional schools of the state. The first two years of this course are similar to those required of all the other majors in home economics; the only exception is that students who know before their junior year that they expect to major in vocational education in homemaking would find it wise to elect the beginning course in psychology some time during the sophomore year. During the junior and senior years such students will take the required courses in which, because of the need for more detailed technical training, the electives are fewer in number than in either the general major, food major or textile major. The required courses in psychology and education are those designed to meet the requirements of the university teachers certificate in home economics. The very liberal grant of the government makes it possible in connection with the state vocational grant to develop training in homemaking in city, town, and country schools. The need for the college trained woman is imperative. In addition to the four-year course the candidate for the teachers certificate in vocational education is expected to have practical experience in house management.

Study of standards is provided in connection with the practice cottage which is a laboratory in connection with the Home Economics Department. Home experience is essential.

The following outline is the work of the junior and senior years in the Vocational Education Major:

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 11	3	Home Economics 11	3
Home Economics 7	3	Home Economics 6	4
Home Economics 72	2	Home Economics 74	2
Home Economics 4	3	Education	3
Electives	5	Electives	3
Total	16	Total	15

Senior Year

First Semester	Credits	Second Semester	Credits
Home Economics 110	3	Home Economics 109	4
Home Economics 96	2	Home Economics *	2
Electives †	11	Education A	2
		Home Economics 124	2
		Electives †	5
Total	16	Total	15

Thesis

All candidates for a degree in Home Economics from the University except those taking the vocational education major in homemaking, are required to present a graduating thesis or to take a thesis course which must be acceptable to the professor at the head of the department. These must represent original work upon some subject which has been arranged after consultation with the student's adviser and the head of the department in which the work is done.

Minors in Home Economics

A minor in Home Economics is not less than 10 nor more than 20 credits in home economics subjects. The minor is intended for those majoring in Letters and Science and desiring a more intensive and also a broader view of home economics problems. A minor may be taken in foods, textiles, or housing problems.

(1) The minor in foods must include Home Economics 1, 3, or 40 and 4, and other related courses to make 15 to 20 credits.

(2) The teaching minor in textiles must include Home Economics 2, 5, 11, 50, 121, and other related courses to complete 20 credits.

(3) The minor in housing problems is intended to be taken with a major or minor in sociology so that those intending to do the work of sanitary inspector or other social settlement work will have a broad foundation knowledge of the fundamental problems in housing conditions. This minor includes Home Economics 1a, 1b, 70 and 74.

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† Suggested electives: **Economics**—elements of economics, sociology, poverty and relief, methods of social service; **Political Science**—municipal government, government and politics in the United States; **English**—general survey, or study of literature; **History**—medieval, United States, English, ancient.

* Choose clothing for children, care and feeding of children, hand and machine sewing for teachers, costume design, or advanced dietetics, cafeteria management.

Minors in Related Subjects

(1) A minor in sociology is recommended for those who are majoring in food or in textiles looking forward to doing welfare work in communities. It should include Economics 1a, and two courses from each of the following groups to make a total of 15 credits:

Group A—Economics 4, 139, 140, and 170.

Group B—Economics 46, 141, 147, and 161.

(2) For a minor in agriculture it is suggested that ten credits (the minimum number allowed) be chosen from Agronomy 1, Horticulture 1, Dairy 1, Agricultural Engineering 1, Animal Husbandry 1, Economic Entomology 1, Veterinary Science 1, and Plant Pathology 5.

(3) The minimum requirements for the minors in the various additional subjects may be found under the School of Education, pp. 275ff.

Advanced Degrees

The degree, Master of Science, is conferred upon candidates whose undergraduate work corresponds to that now leading to the degree, Bachelor of Science, as conferred by the University of Wisconsin. This degree may also be conferred upon holders of the B.A. degree who have pursued advanced work in science.

Candidacy for the above degree is normally based upon resident study at the University. For exceptions consult the Graduate School Bulletin.

During a period of at least one academic year the candidate must pursue a course of graduate study characterized by definiteness of purpose and approved by the University as appropriate to that purpose and suitable in amount. Such a course includes as a minimum for each semester assigned graduate work carrying from 9 to 12 credits. At least one-half of this work must lie in a single department. A thesis will be required of candidates for the master's degree. The undergraduate preparation of the candidate must be sufficient to satisfy the instructor that the advanced work may be undertaken profitably. Undergraduate courses of suitable character may be elected in addition to the normal amount of graduate work, provided that the recommendation of the professor in charge of the student's major and the approval of the Dean of the Graduate School be obtained in advance.

Candidates for the master's degree majoring in home economics may elect as their major study foods, textiles, or general course in home economics.

Graduate Food Major

The following home economics and related subjects are suggested for the food major—Home Economics 101, 102, 109, 110, 122, 125, 222; Agricultural Chemistry 122; Bacteriology 125.

Additional courses may be selected on the advice of the major professor and the Dean of the Graduate School.

Graduate Textile Major

The following home economics and related subjects are suggested for the textile major: Home Economics 101, 102, 103, 104, 110.

Additional courses in botany, chemistry, history, economics may be selected on the advice of the major professor and the Dean of the Graduate School.

Graduate General Major

For those who wish to select courses leading to a master's degree majoring in more than one branch of home economics training, the selection of home economics and related courses should be made in both the food and the textile side, subject to the approval of the Director of the Course in Home Economics and the Dean of the Graduate School.

Requirements for Minor in Home Economics Applying Toward the Degree of Doctor of Philosophy

Candidates for the degree of Doctor of Philosophy whose major study lies in another department of the University may choose as one minor study, courses in home economics in the general subject of foods, of textiles, or of housing. The election of studies in this department which shall constitute a minor subject will be determined in conference with the Director of the Course of Home Economics and must meet with the approval of the Graduate Committee. For data as to major studies see Bulletin of the Graduate School.

Requirements for State Teachers Certificate

See p. 286.

Students desiring to qualify for the University Teachers Certificate will find it an advantage to select an additional subject

in which they may qualify under the head of a minor, so that when they are placed in small high schools they will be equipped to teach not only their major subject of home economics, but also a minor subject. A suggested list of minors includes mathematics, English, modern language, history, Latin, physiology, physics, chemistry, botany, and biology. The selection of a minor should be made as early in the course as possible so that the free electives may be utilized to best advantage.

DEPARTMENTS OF INSTRUCTION

LONG AND MIDDLE COURSES IN AGRICULTURE AND COURSE IN HOME ECONOMICS

Abbreviations in the announcement of courses: Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e., hours of credit. Unless otherwise stated, the number of credits per semester is given.

AGRICULTURAL BACTERIOLOGY

PROFESSORS FRED, FROST, HASTINGS, (CHAIRMAN); ASSISTANT PROFESSOR WRIGHT; INSTRUCTORS BACHMANN, FRAZIER; ASSISTANTS ANDERSON, DRAKE, LOTTES, STEVENS.

FELLOWS, MR. BRYAN, MISS JOHNSTON.

The courses are planned to meet the needs (1) of students who desire to obtain an idea of the general relations of micro-organisms to natural processes; (2) of students intending to devote themselves to the study of dairy husbandry, soils, veterinary medicine, or foods; (3) of students wishing to prepare themselves for instructional or research work in general or applied bacteriology.

For Undergraduates

1. General Survey. I; 5 cr. Prerequisite: Chemistry 1a. Mr. Hastings.

2. General Survey. II; 3 cr. Prerequisites: Chemistry 1a and 1b. For students in the chemical course. Mr. Wright.

4. General Survey. II; 5 cr. Prerequisite: Chemistry 1a. For students in home economics. Mr. Frost, Miss Bachmann.

Thesis. Yr.; 2 cr. Prerequisites: courses 1, 2, or 4 and 124 and either 121, 123, or 125. Mr. Fred, Mr. Frost, Mr. Hastings.

For Undergraduates and Graduates

121. Dairy Bacteriology. II; 3 cr. Prerequisite: course 1, 2 or 4. Mr. Hastings.

123. Soil Bacteriology. I; 4 cr. Prerequisite: course 1, 2 or 4. Mr. Fred.

124. Technique. II; 3 cr. Prerequisite: course 1, 2 or 4. Mr. Wright.

125. Food Bacteriology. I; 3 cr. Prerequisite: course 1, 2 or 4. Miss Bachmann.

130. Determinative Bacteriology. I and II; 2 or more cr. Prerequisite: course 1, 2 or 4. Mr. Frost, Miss Bachmann.

For Graduates

230. Research. Yr.; 2 or more cr. Prerequisites: course 1, 2 or 4, 124, and either 121, 123, or 125.

231. Seminary. Yr.; 1 cr. For major and graduate students.

AGRICULTURAL CHEMISTRY

Emeritus PROFESSOR BABCOCK; PROFESSORS HART (CHAIRMAN), STEENBOCK; ASSOCIATE PROFESSORS PETERSON, TOTTINGHAM; INSTRUCTORS NELSON, HOPPERT, SELL; ASSISTANTS JONES, LEPKOVSKY, BRUNKOW, BETHKE, GERHARDT, STEVENS, RANKIN, SCHMIDT.

SCHOLAR, BLACK.

The courses offered in this department are intended to give a broad view of farm chemistry useful to the general agricultural student, and to develop men fitted for instructional or experimental work in the various fields of chemical activity applied to agriculture. Courses 120 to 122 are for students desiring a more detailed knowledge of the special subjects treated and are preliminary to greater specialization. These courses should be preceded or accompanied by work in biology and organic chemistry. Physiology is a desired prerequisite. All other advanced courses in this department are open to undergraduates and graduates who have had the necessary preliminary training.

For Undergraduates

1. Agricultural Chemistry. II; 3 cr. Mr. Hart.

2. Agricultural Analysis. II; 2 cr. Mr. Tottingham.

3. Household Chemistry. I; 5 cr. Mr. Peterson.

Thesis. Yr.; 2 cr. May be taken in plant, animal, dairy or fermentation chemistry. Mr. Hart, Mr. Steenbock, Mr. Peterson, Mr. Tottingham.

For Undergraduates and Graduates

120. Plant Chemistry. II; 2 or 5 cr. Mr. Tottingham.

121. Dairy Chemistry. I; 2 or 5 cr. Mr. Hart.

122. Animal Chemistry. I; 2 or 5 cr. Mr. Steenbock.

123. Advanced Household Chemistry. II; 3 cr. Mr. Peterson.

124. Advanced Bio-Chemistry. I or II; cr. to be arranged. Mr. Hart, Mr. Steenbock.

126. Chemistry of Fungicides and Insecticides. I; cr. to be arranged. A course designed for students in plant pathology, horticulture, and entomology. Mr. Steenbock.

For Graduates

230. Plant Nutrition. Yr.; hours to be arranged. Mr. Tottingham.

231. Animal Nutrition. Hours to be arranged. Mr. Hart, Mr. Steenbock.

232. Advanced Dairy Chemistry. Yr.; hours to be arranged. Mr. Hart.

233. Seminary. Yr.; 1 cr. Mr. Hart, Mr. Steenbock.

AGRICULTURAL ECONOMICS

PROFESSORS HIBBARD (CHAIRMAN), MACKLIN; ASSOCIATE PROFESSOR MCNALL; ASSISTANT PROFESSORS DONALD, KOLB; ASSISTANTS GABBARD, HENDRICKSON, KELLER, PAULSON; LECTURERS RILEY, TETREAU.

SCHOLAR, MR. EKE.

The courses in agricultural economics are intended to give the student a knowledge of the economic principles which relate to the production and marketing of farm products, and to the economic condition of the agricultural classes.

Students who wish to prepare themselves for practical work as

farm managers and as citizens interested in agriculture will find courses 1, 8, 10, 25, 128, 135, and 152 adapted to their needs.

Students who wish to prepare for positions in agricultural marketing will find courses 1 and 128 in agricultural economics, and courses 1b, 5, 8a, 11, 12, 13, 15, 109a, 109b, 130, 135, 136, 181 and 182 in economics adapted to their needs.

Students who wish to prepare for positions as teachers and research workers in the field of agricultural economics will find it desirable to elect courses 224 to 240. Such students should elect courses in the Department of Economics to round out their work. Courses 1b, 8a, 8b, 101, 130, 135, 122, 123, 145, 146, 200, 201, 202, 220, 221, 222, 223, and 226 are available for this purpose.

For Undergraduates

1. Principles of Agricultural Economics. I; 5 cr. Mr. Hibbard and staff.

8. Farm Records and Accounts. Yr.; 2 cr. Mr. Keller.

***10. Farm Organization.** II; 3 cr. Prerequisite: course 8 or equivalent. Mr. McNall.

***25. Rural Life.** II; 3 cr. Prerequisite: Course 1, or Economics 1a, 4 or 46. Mr. Kolb.

Thesis. Yr.; 2 cr. Mr. Hibbard, Mr. Macklin.

For Undergraduates and Graduates

125. Seminary in Rural Organization. II; 2 cr. Open to senior majors and graduate students. Mr. Kolb.

***128. Marketing Farm Products.** II; 3 cr. Prerequisite: course 1, or equivalent. Mr. Macklin.

130. Farm Credit. II; 2 cr. Mr. Hibbard.

135. Cost Accounting on Farms. II; 2 cr. Prerequisite: course 8 or equivalent. Mr. McNall.

151. Seminary in Country Life. I; 2 cr. Mr. Tetreau.

152. Farmer Movements. I; 2 cr. A discussion of the great farmer movements such as the Grange, the Alliance, and American Farm Bureau Federation. Mr. Hibbard.

For Graduates

226. Land Tenure. Yr.; 2 cr. Mr. Ely, Mr. Hibbard.

227. Economic History of Agriculture. II; 2 cr. Mr. Hibbard.

228. Seminary in Marketing. II; 2 cr. Mr. Macklin. Prerequisite course 128 or to be taken with course 128.

*May be elected by second year Middle Course students.

229. Advanced Agricultural Economics. Yr.; 2 cr. Mr. Hibbard.

240. Research. Opportunity to do research under personal supervision as follows:

On country life. Mr. Kolb.

On co-operation and marketing. Mr. Macklin.

On cost accounting and its relation to farm management. Mr. McNall.

On farm surveys and financial accounts in their relation to farm management. Mr. McNall.

On the history of agricultural production, and on farm credit. Mr. Hibbard.

AGRICULTURAL EDUCATION

PROFESSORS HATCH, JAMES (CHAIRMAN); ASSOCIATE PROFESSOR MORTIMER; ASSISTANT PROFESSORS BEWICK, TIFFANY.

The courses in agricultural education are for students who expect to teach agriculture in college, normal, high school or vocational schools or to engage in agricultural extension as a county agent or extension specialist.

For Undergraduates

1. Rural Education. II; 3 or 4 cr. Mr. James, Mr. Tiffany.

5. Boys' and Girls' Club Work. I; 2 cr. Mr. Bewick.

For Undergraduates and Graduates

103. Seminary. Yr.; cr. to be arranged. Mr. Hatch, Mr. James, Mr. Tiffany.

103S. Agricultural Extension Methods and Problems. 2 cr. Mr. Hatch.

105S. Vocational Agriculture. 2 cr. Mr. James, Mr. Tiffany.

110. Training Course for County Agents. II; 2 cr. Mr. Hatch.

128. The Teaching of Animal Husbandry. (Animal Husbandry 128). I; 2 cr. Mr. James.

140. The Teaching of Plant Husbandry. (Agronomy 140). II; 2 cr. Mr. Mortimer.

200. Special Problems (Research). Cr. to be arranged. Mr. Hatch, Mr. James.

Thesis. Yr.; 2 cr. Mr. Hatch, Mr. James.

AGRICULTURAL ENGINEERING

PROFESSOR E. R. JONES (CHAIRMAN); ASSOCIATE PROFESSOR SWENEHART; ASSISTANT PROFESSORS DUFFEE, FIEDLER, ZEASMAN; INSTRUCTOR FISH; ASSISTANTS HELWIG, LOOMIS, WHITE, WOLF.

This department has unusual facilities for giving laboratory and field work under actual farm conditions. The courses prepare students of farm machinery, power machinery, farm buildings, land clearing and land drainage for general farm work, for expert service in commercial enterprises and for teaching or research. Lectures and textbook work accompany the practical work in each course. Students specializing in agricultural engineering are advised to supplement this work with courses in higher mathematics and mechanics in the College of Engineering.

For Undergraduates

1. Land Surveying and Drainage. I; 3 cr. Optional subject for agricultural students. Mr. Jones.

2. Farm Structures. I; 3 cr. Mr. Fish.

3. Gas Engines. Yr.; 3 cr. Mr. Duffee.

4. Concrete Construction. II; 2 cr. Mr. Fish.

5. Farm Field Machinery. II; 3 cr. Mr. Duffee.

6. Land Drainage. I; 3 cr. Mr. Jones.

8. Domestic Engineering. I; 2 cr. Mr. Fish.

Thesis. Yr.; 2 cr. Mr. Jones and staff.

For Undergraduates and Graduates

101. Advanced Gas Engines and Farm Tractors. II; 3 cr. Prerequisite: course 3. Mr. Duffee.

*102. **Drainage Design.** II; 2 cr. Prerequisite: course 1 or 6. Mr. Jones.

105. Belt and Tractor Machinery. II; 2 cr. Prerequisites: courses 5 and 101. Mr. Duffee.

*120. **Research.** Yr.; cr. to be arranged. Mr. Jones and staff.

Electives in the College of Agriculture given in the College of Engineering

7. Country Roads. Yr.; 1 cr. Mr. Smith.

13. General Carpentry. Yr.; 1 cr. Mr. Sullivan.

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* See Long Course Circular

14. General Forge and Bench Work. Yr.; 1 cr. Mr. Schumann.

104. Water Measurement. II; 1 cr. Laboratory work in water measurements and pump installation for drainage or irrigation of farm lands. To accompany Course 102. Mr. Corp.

AGRICULTURAL JOURNALISM

PROFESSOR HOPKINS (CHAIRMAN); ASSISTANT PROFESSOR SUMNER; INSTRUCTOR LANGDON; ASSISTANT FROST.

The power to express themselves in simple, understandable English is becoming an increasingly valuable asset of the teacher, extension worker, county and home demonstration worker, and farmer. To render the greatest service the technically trained graduate must know how to write; the extension worker must use the printed page to encourage effectively the use of better methods, the farmer must be able to write advertisements and write farm sales letters.

For Undergraduates

1. Writing Farm Stories (section 1). I; 2 cr.
1. Writing Home Economics Stories (section 2). I; 2 cr.
2. Practice in Editing. I and II; 1 cr.
3. Agricultural Publicity and Advertising. I and II; 2 cr.
4. The History of Farm Papers. II; 1 cr.
5. Writing and Editing Farm Bulletins. I and II; 2 cr.

Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

140. Methods and Problems. II; cr. to be arranged.

AGRONOMY

PROFESSORS R. A. MOORE (CHAIRMAN), DELWICHE, GRABER; ASSOCIATE PROFESSORS LEITH, MORTIMER; ASSISTANT PROFESSORS STONE, WRIGHT; INSTRUCTORS ALBERTZ, HOLDEN; ASSISTANTS NELSON, TIEDJENS.

The courses in agronomy are designed to give a thorough understanding of the general and scientific principles which

underlie the production of farm crops, and to prepare students for instructional and research work in agronomy.

For Undergraduates

1. General Farm Corps. Yr.; 3 cr. Mr. Mortimer.

2. Forage Crops. II; 3 or 5 cr. Mr. Moore, Mr. Graber.

3. Sugar, Fiber, and Canning Crops. I; 2 cr. Mr. Wright, Mr. Albertz.

Thesis. Yr.; 4 cr. Mr. Moore and staff.

For Undergraduates and Graduates

101. Research. Credit to be arranged. Offered at Madison and the branch experiment station. Permission of instructor required. Mr. Moore and staff.

102. Grasses and Pastures. I; 2 cr. Prerequisite: course 1, Mr. Mortimer.

104. Cereals. I; 3 cr. Prerequisite: course 1. Mr. Leith.

120. Seed and Weed Identification and Control. I; 3 cr. Prerequisite: course 1. Mr. Stone.

121. Advanced Crop Judging. II; 2 cr. Prerequisite: course 1. Mr. Mortimer.

130. Plant Breeding. II; 3 cr. Prerequisites: Botany 1 and course 1. Mr. Leith.

131. Seminary. Yr.; 1 cr. Permission of instructor required. Mr. Moore and staff.

140. The Teaching of Plant Husbandry. II; 2 cr. Prerequisite: course 1. Mr. Mortimer.

ANIMAL HUSBANDRY

Emeritus PROFESSOR HENRY; PROFESSORS FULLER, HUMPHREY (CHAIRMAN), JAMES, MORRISON; ASSOCIATE PROFESSOR HULCE; ASSISTANT PROFESSOR KLEINHEINZ; INSTRUCTORS BALLANTINE, CRAMER, DURANT, FARGO, HARRIS, HEAL, SOMMERFELD.

For Undergraduates

1. Elementary Livestock Judging. Yr.; 3 cr. Mr. Ballantine, Mr. Sommerfeld.

2. Livestock Management. Yr; 2 cr. Mr. Fuller and staff.

Thesis. Yr.; 2 cr. Mr. Fargo, Mr. Harris, Mr. Hulce, Mr. Humphrey, Mr. Morrison.

For Undergraduates and Graduates

120. History of Breeds. II; 3 cr. Required of students majoring in animal husbandry. Prerequisite: Course 1. Mr. Fuller.

124. The Art of Breeding. II; 2 cr. Prerequisites: Courses 1, 2. Required of students majoring in animal husbandry. Mr. Fargo.

126. Livestock Feeding. Yr.; 4 cr. Required of students majoring in animal husbandry. First semester for Middle Course students with no prerequisite; second semester for Long Course students. Prerequisite: Course 1. Mr. DuRant, Mr. Heal, Mr. Morrison.

127. Livestock Pedigrees. II; 2 cr. Prerequisites: Courses 1 and 120. Mr. Humphrey and staff.

128. The Teaching of Animal Husbandry. I; 2 cr. For students electing work toward a University teachers certificate. Mr. James.

130. Swine and Sheep. I; 3 cr. Prerequisites: Courses 1 and 2. Mr. Fargo, Mr. Kleinheinz.

131. Horses. I; 2 cr. Prerequisites: Courses 1 and 2. Mr. Fuller.

132. Beef and Dairy Cattle. II; 3 cr. Prerequisites: Courses 1 and 2. Mr. Fuller, Mr. Hulce.

135. Animal Husbandry Seminary. Yr.; 1 cr. Mr. Morrison.

140. Field Problems. Yr.; 3 or 4 cr. Work to be done in absentia of students supervising cow testing associations and having had two years of agricultural college work. Mr. Harris, Mr. Hulce, Mr. Humphrey.

For Graduates

230. Livestock Practice and Problems. Yr.; 1 to 3 cr. For graduates and students majoring in animal husbandry. Prerequisites: Courses 1, 120, 126. Mr. Humphrey and staff.

DAIRY HUSBANDRY

Professor Farrington (chairman); Associate Professor Sammis; Assistant Professor Sommer; Instructor Thomsen.

The department offers instruction in the theory and art of manufacturing dairy products, suited to the needs of (a) farm dairymen, (b) investigators or teachers, (c) managers, operators, or inspectors of creameries, cheese factories, city milk and ice

cream plants. Students intending to major in this department should elect courses 2 and 3 or 4 at the beginning of the junior year.

For Undergraduates

1. General Farm Dairying. II; 3 cr. Optional subject. Lectures, Mr. Farrington; laboratory, Mr. Thomsen.

2. Advanced Milk Inspection. I; 3 cr. Prerequisite: Course 1. Lecture, Mr. Farrington; laboratory, Mr. Sommer.

3. The Operation and Management of Dairy Manufacturing Plants. Yr.; 3 cr. Lecture, Mr. Farrington; laboratory, Mr. Thomsen.

4. Cheese Factory Operation and Management. Yr.; 3 cr. Mr. Sammis and assistants.

5. City Milk Supply and Ice Cream Making. II; 3 cr. Prerequisite: course 2. Lectures and laboratory. Mr. Sommer.

Thesis. Yr.; 2 cr. Prerequisites: courses 2 and 3, 4 or 5. Mr. Farrington and staff.

For Undergraduates and Graduates

102S. Dairy Practice. 1 cr. for each forty-eight hours of work, with a maximum of 4 credits. Prerequisite: course 1. Mr. Farrington.

120. Advanced Market Milk Problems. Yr.; 3 or 5 cr. Prerequisites: courses 2 and 5. Mr. Sommer.

121. Advanced Course in the Manufacturing of Dairy Products. Yr.; 3 to 5 cr. Prerequisites: courses 2 and 3. Mr. Farrington.

122. Cheese Industry Problems. Yr.; 3 or 5 cr. Prerequisite: course 4. Mr. Sammis.

123. Seminary. Yr.; 1 cr. For advanced and graduate students. Mr. Sommer.

ECONOMIC ENTOMOLOGY

PROFESSOR WILSON (CHAIRMAN); ASSISTANT PROFESSOR FLUKE; INSTRUCTORS MILUM, WHITEHEAD.

The courses provided in this department are designed primarily to meet the needs of students specializing in other departments. Advanced and special students are expected to be able to do more or less original research upon their own initiative. The course in

bee-keeping includes both laboratory and field work and special trips are made to apiaries in the vicinity of Madison.

For Undergraduates

1. Farm Insects. II; 3 cr. Optional subject. Mr. Fluke.

7. Household Insects. I; 2 or 3 cr. Mr. Fluke.

10. Elementary Beekeeping. II; 2 cr. For advanced work see course 110. Mr. Wilson, Mr. Milum.

Thesis. Yr.; 2 cr. For advanced and graduate students specializing in entomology. Mr. Wilson.

For Undergraduates and Graduates

105. Truck and Field Crop Insects. I; 3 cr. Prerequisite: course 1 or Zoology 3. (Given 1921-22 and alternate years.) Mr. Fluke.

110. Advanced Beekeeping. II; 2 or 5 cr. A continuation of course 10. Mr. Wilson, Mr. Milum.

115. Seminary. Yr.; 1 cr. For advanced and graduate students. Mr. Wilson.

120. Research Work. Yr.; cr. to be arranged. Mr. Wilson, Mr. Fluke.

GENETICS

PROFESSOR COLE (CHAIRMAN); ASSISTANT PROFESSOR LINDSTROM; ASSISTANTS CARVER, STEELE, STEVENS, STROMAN, YOKE.

The following courses are designed for those who desire a general knowledge of the subjects of heredity and breeding, or who contemplate following these lines, either from the theoretical or practical point of view. Special opportunity is offered those doing advanced work to get practical experience in the methods of experimental breeding.

For Undergraduates

1. Principles of Genetics. I; 3 cr. Mr. Cole.

Thesis. Yr.; 2 cr. Mr. Cole, Mr. Lindstrom.

For Undergraduates and Graduates

101. Principles of Genetics. I; 3 cr. Lectures and other work of course 1 with additional work. Prerequisite: A course in biology. Mr. Cole.

102. Elementary Laboratory. I; 1 or 2 cr. Prerequisite: course 1 or 101, or concurrent registration therein. Mr. Lindstrom.

104. Plant Genetics. I; 3 cr. Prerequisite: course 1 or equivalent in Departments of Botany or Zoology. Mr. Lindstrom.

105. Animal Genetics. II; 2 cr. Prerequisite: Same as for Genetics 104. Mr. Cole.

106. Biometric Methods. II; 1 cr. Prerequisite: Same as for Genetics 104. Mr. Lindstrom.

120. Seminary. Yr.; 1 cr. Consent of instructor required before election. Mr. Cole.

121. Topical Work. Yr.; cr. to be arranged (consent of instructor). Mr. Cole, Mr. Lindstrom.

For Graduates

225. Research. Yr.; cr. to be arranged. Mr. Cole, Mr. Lindstrom.

For other courses in heredity and evolution see Botany 154 and 156, and Zoology 6 and 107 in the College of Letters and Science.

HOME ECONOMICS

PROFESSOR MARLATT (DIRECTOR); ASSOCIATE PROFESSOR KRUEGER; ASSISTANT PROFESSORS ARBOGAST, COWLES, DODGE, HILLSTROM, LITTLE, MANNING, PARSONS, ROBERTS; INSTRUCTORS BEMIS, BECKER, DAVIS, LAKE, MACKINNON, RAY, STRANG, TYLOR; ASSISTANTS BRAUN, KING, STEWART.

FELLOW, MISS BEYE.

For Undergraduates

1. General Survey. House Management. Yr.; 3 or 6 cr. Miss Marlatt, Miss Cowles, Miss Lake.

2. Art and Design. I or II; 3 cr. Miss Hillstrom, Miss Strang, Mrs. Tylor.

3. Introduction to Food Study. II; 3 cr. Prerequisite: entrance credit in physics or chemistry or first semester of Chemistry 1. Miss Marlatt and staff.

4. Economic Problems of the Food Supply. I; 3 cr. Continuation of course 3. Prerequisites: Agricultural Chemistry 3, Home Economics 3. Miss Roberts, Miss Ray.

5. Introduction to Textile Study. I; 2 cr. Miss Arbogast, Miss King.

6. Nutrition and Dietetics. II; 4 cr. Prerequisites: Home Economics 3, 4, Physiology 1, Bacteriology 4, Chemistry 1, Agricultural Chemistry 3. Miss Parsons, Miss Braun.

7. House Architecture and Sanitation. I; 3-4 cr. Prerequisites: Physics 1, Bacteriology 4, Home Economics 2. Miss Cowles, Mrs. Tylor.

8. Household Decoration. II; 4 cr. Prerequisites: Home Economics 2, 7, or Manual Arts 62. Miss Hillstrom.

9. Introduction to Home Economics. I; 1 cr. Lecture course required of freshmen in Home Economics. Home Economics Faculty.

11. Manufacture and Selection of Clothing. Yr.; 6 cr. Prerequisites: Home Economics 2 and 5. Miss Manning, Miss Ray.

20. Costume Model Course. I and II; 3 cr. Miss Strang.

22. Organization and Administration of Institutions. II; 3 cr. Miss Little.

32. Clothing for Children. II; 2 cr. Miss Arbogast.

40S. Food Study and Cookery. I; 4 cr. Vocational Education. Miss Dodge.

47. Care and Feeding of Children. II; 3 cr. Miss Parsons.

50. Textiles. II; 3 cr. Prerequisites: Chemistry 1, Agricultural Chemistry 3, Home Economics 5. Miss Arbogast, Miss King, Miss Ray, Mrs. Tylor.

70. Housing the Worker. II; 2 cr. Miss Cowles.

72. Home Nursing. I; 1 or 2 cr. Dr. D. R. Mendenhall, Miss Morrissey.

74. Decoration of the Home. II; 2 cr. Miss Strang.

91S. Millinery. 2 cr. Summer school only. Miss Arbogast.

92S. Organization of Courses in Hand and Machine Sewing for Teachers. 2 cr. Summer school only. Miss Arbogast.

94. Advanced Applied Design. I or II; 3 cr. Open to juniors or seniors and graduate students. Prerequisites: Home Economics 2 or Manual Arts 62 or equivalent. Miss Hillstrom.

95. Weaving. I; 1 or 2 cr. Miss Hillstrom.

96. Household Crafts. I; 1 cr. Miss Arbogast.

97. Costume Design. II; 4 cr. Prerequisites: Home Economics 11. Miss Manning.

For Seniors and Graduates

101. Research. Yr.; credit to be arranged. Miss Davis, Miss Parsons, Miss Roberts.

102. Topical Work. Yr.; credit to be arranged. May precede or be taken in connection with course 101. Miss Davis, Miss Krueger, Miss Manning, Miss Parsons.

103. Economic History of Textile Industry. I; 2 cr. Miss Manning, Miss Arbogast.

104. History of Costume in its Sociological Aspect. I; 2 cr. Miss Krueger.

105. Experimental Food Study. I; 2 cr. Limited to seniors and graduate students. Miss Marlatt.

109. Humanics. II; 1 to 4 cr. Open to seniors in Home Economics and seniors in the College of Letters and Science who have taken biology. Miss Marlatt.

110. Household Administration. I; 3 to 4 cr. Prerequisites: Chemistry 1, Agricultural Chemistry 3, Bacteriology 4, Physics 1 or 65, Home Economics 3. Miss Marlatt, Miss Krueger, Miss Lake.

120. Seminary. II; 1 or more cr. Miss Marlatt, Miss Dodge.

121. Teachers Course. I or II; 2 cr. Prerequisites: home economics major or minor. Miss Dodge, Miss MacKinnon.

122a. Cafeteria Management. I; 2 cr. Large quantity cooking. Miss Bemis.

122b. Cafeteria Management. II; 2 cr. Institutional, dietaries and catering. Miss Little.

124. Vocational Education in Homemaking. II; 2 cr. Miss Marlatt, Miss Arbogast.

Education A. Vocational Education Practice Teaching. I or II; 2 cr. Mr. Miller, Miss Marlatt, Miss Arbogast.

125. Dietetics in Disorders of Nutrition. I; 3 cr. Prerequisite: Home Economics 6. Required in major in food. Miss Parsons, Miss Braun.

126. Extension Course in Home Economics. II; 2 cr. Miss Marlatt and staff.

132. Institutional Laundry Management. I; 2 cr. Prerequisites: Agricultural Chemistry 3 and Home Economics 50. Miss Bemis.

133. Tea Room, Restaurant, and Hotel Management. II; 2 cr. Prerequisites: Home Economics 22, 122a, 122b, 134. Miss Little and staff.

134. Institutional Equipment. I; 1 cr. Prerequisites: Physics 65 and Home Economics 7. Miss Little.

For Graduates

222. Institution Economics. I or II; Limited to selected graduate students who will be allowed to study in connection with the University Commons. Miss Little.

223. Seminary on Housing Problems. I; 2 or 3 cr. Miss Marlatt, Miss Cowles.

HORTICULTURE

PROFESSOR J. G. MOORE (CHAIRMAN); PROFESSOR MILWARD; ASSOCIATE PROFESSORS AUST, JOHNSON; ASSISTANT PROFESSOR ROBERTS; INSTRUCTORS BRANN, GIFFORD, NIGHTINGALE; ASSISTANTS BRADBURY, KREMERS, RAWLINS.

The courses offered in this department are designed to give the student a thorough working knowledge of the principles and practices of the most important lines of horticultural work.

For Undergraduates

1. Principles of Fruit Growing. I; 3 cr. Optional subject for all students. Mr. Moore.

2. Advanced Fruit Growing. Yr.; 2 cr. Prerequisite: course 1. Mr. Nightingale.

2S. Teachers Horticulture. 2 cr. Mr. Moore.

3. Vegetable Gardening. II; 3 cr. Optional subject for all students. Mr. Moore.

3S. School and Home Grounds Decoration. 2 cr. Mr. Aust.

4. Vegetable Forcing. Yr., I; 3 cr. II; 2 cr. Mr. Moore.

5. Small Fruit Culture. I; 2 cr. Mr. Moore.

***6. Landscape Gardening.** I; 3 cr. Mr. Aust.

7. Plant Propagation. II; 2 cr. Mr. Moore.

8. Floriculture. II; 3 cr. Designed for women. Mr. Moore.

10. Farm Forestry. I; 2 cr. Mr. Aust.

11. Potatoes and Truck Crops. I; 2 cr. Mr. Milward and Mr. Moore.

Thesis. Yr. Mr. Aust, Mr. Johnson, Mr. Moore, Mr. Roberts.

For Undergraduates and Graduates

121. Experimental Horticulture. Yr.; 2 to 5 cr. Mr. Aust, Mr. Moore, Mr. Roberts.

122. Systematic Pomology. I; 3 cr. Students electing this course should have had Horticulture 1 and 2. Mr. Nightingale.

***125. Advanced Landscape Gardening.** II; 2 cr. Continuation of Horticulture 6. Mr. Aust.

*See also College of Engineering general catalogue for lectures on City Planning.

126. Rural Improvement. I; 2 or 3 cr. Prerequisite: Economics 1 or Agricultural Economics 1. Mr. Aust.

PLANT PATHOLOGY

PROFESSORS L. R. JONES (CHAIRMAN), KEITT; ASSOCIATE PROFESSORS GILBERT, JOHNSON, VAUGHAN; ASSISTANT PROFESSORS DICKSON, WALKER; CURATOR DAVIS; LECTURER HUMPHREY; INSTRUCTORS BAIRD, BRANN, TISDALE; ASSISTANTS BITTERMAN, L. K. JONES, LINDEGREN.

FELLOWS, MR. RIKER, MR. M. N. WALKER.

SCHOLARS, MR. FELLOWS, MR. STREETS.

Thesis. Yr.; 2 cr. Investigation of some problems in plant pathology. Subject should be chosen early, preferably the preceding spring, in order to take advantage of the summer season to secure material. Mr. Jones and staff.

5. Crop Diseases and Their Control. I; 2 cr. Mr. Vaughan and staff.

For Undergraduates and Graduates

101. Diseases of Plants. I; 3 cr. Prerequisites: Botany 1 and Bacteriology 1. Mr. Jones, Mr. Gilbert, Mr. Baird.

102. Methods in Plant Pathology. I; 4 cr. Prerequisite: Plant Pathology 101. Mr. Keitt, Mr. Tisdale.

104. Morphology of Fungi. I; 3 cr. Prerequisite: Botany 1 or its equivalent. Mr. Gilbert.

116. Diseases of Field Crops. II; 2 cr. Arranged to meet the needs of students specializing in plant pathology and agronomy. Prerequisite: Plant Pathology 5 or its equivalent. Mr. Dickson.

117. Diseases of Orchard Fruits. II; 2 cr. A detailed study of the diseases of deciduous orchard fruits. Prerequisite: Plant Pathology 101 or its equivalent. Mr. Keitt, Mr. L. K. Jones.

118. Diseases of Small Fruits. (Omitted 1921-22.)

119. Diseases of Timber, and Forest Protection. (Omitted 1921-22.)

120. Diseases of Garden Crops. (Omitted 1921-22.)

122. Fungicides in Relation to Host and Parasite. (Omitted 1921-22.)

For Graduates

220. Advanced Mycology. Yr. Prerequisite: Botany 104 or its equivalent. Mr. Gilbert.

221. Classification of Parasitic Fungi. Yr. Prerequisite: The equivalent of Botany 104 or Plant Pathology 101. Mr. Davis.

223. Seminary. Yr.; 1 cr. Mr. Jones and staff.

225. Research. Cr. to be arranged. Mr. Jones, Mr. Dickson, Mr. Johnson, Mr. Keitt.

POULTRY HUSBANDRY

PROFESSOR HALPIN (CHAIRMAN); ASSISTANT PROFESSORS HAYES, REID; ASSISTANT JOHNSON.

The Poultry Department is well equipped with houses for laying stock and for brooding chicks. It also has a very complete list of incubators, brooders, and other poultry machinery. The present stock consists of twenty varieties of chickens, three varieties of ducks, five breeds of geese, and one breed of guinea fowl.

For Undergraduates

1. Poultry Raising. I; 3 cr. Optional subject. Mr. Halpin, Mr. Reid.

2. Poultry Raising. II; 2 cr. Continuation of course 1. Mr. Reid.

3. Poultry Practice. Yr.; 1 to 3 cr. Mr. Halpin.

5. Artificial Incubation and Brooding. II; 1 to 3 cr. Prerequisite: course 2. Mr. Reich.

8. Market Poultry. I; 1 or 2 cr. Practice in fattening, killing, and dressing. Prerequisite: course 1 or 2. Mr. Reid.

Thesis. 2 cr. Mr. Halpin.

For Undergraduates and Graduates

106. Poultry Judging. I; 3 cr. Prerequisite: course 1. Mr. Halpin.

107. Advanced Poultry Management. II; 3 cr. Prerequisites: courses 1, 2, and 3. Mr. Halpin.

120. Research Work. Yr.; cr. to be arranged. Mr. Halpin.

SOILS

PROFESSORS WHITSON (CHAIRMAN), TRUOG; ASSOCIATE PROFESSOR MUSBACH; ASSISTANT PROFESSORS CHAPMAN, GRAUL, RICHARDS, STEWART, ULLSPERGER; INSTRUCTORS ALBERT, BARTHOLOMEW.

Course 1 is prerequisite to all other courses except course 3.

Courses 122 may be elected by Middle Course sophomores.

Courses 1, 3, and 120 are general in character and are adapted to the needs of all students of agriculture. Advanced students specializing in this subject are advised to elect courses in chemistry, soil bacteriology, plant physiology, agronomy or geology, according to their special needs, during their senior and graduate years. The summer period is particularly suited to advanced work in soil fertility. For courses offered see summer session catalogue.

For Undergraduates

1. Principles of Soil Fertility. II; 5 cr. Prerequisite: or accompanied by Chemistry 11 Ag. Mr. Graul.

18. Elementary Soils. 3 cr. Prerequisite: a course in general chemistry. Mr. Stewart.

3. Principles of Soil Fertility. I; 3 cr. Required of sophomores, Middle Course. Mr. Stewart.

Thesis. Yr.; 2 cr. Mr. Whitson and staff.

For Undergraduates and Graduates

120. Soil Management. I; 2 cr. Mr. Whitson.

121. Soil Analysis. I; 3 or 5 cr. Mr. Truog.

122. Soil Physics. II; 4 cr. Not given in 1921-22. Mr. Stewart.

124. Plant Nutrition. I; 3 cr.

125. Soil Classification and Climatology. II; 3 cr. Mr. Whitson.

127. Advanced Soil Chemistry. II; 2 cr. Mr. Truog.

128. Field Course. I; 1 cr. Mr. Stewart.

For Graduates

231. Research. Mr. Whitson, Mr. Truog, Mr. Stewart.

232. Seminary. Yr.; 1 cr. Mr. Whitson and Mr. Truog.

VETERINARY SCIENCE

PROFESSORS ALEXANDER, HADLEY (CHAIRMAN); ASSOCIATE PROFESSOR BEACH; ASSISTANT B. L. WARWICK.

The studies detailed below are designed to give students interested in animal production an opportunity to learn how the body is constructed and works. With this as a basis, the more important aspects of live stock sanitation are studied. Especial emphasis is placed on the prevention of animal diseases. The work is made of practical value with the aid of live animals, specimens, models, charts, and other apparatus. These studies introduce the student to terms commonly used in medicine and thus provide a means by which a reading knowledge of veterinary literature may be easily acquired.

For Undergraduates

1. The Animal Body. I; 3 cr. Optional subject. Mr. Hadley.

2. Diseases of Horses and Swine. II; 2 cr. Mr. Hadley.

3. Diseases of Cattle and Sheep. I; 2 cr. Mr. Hadley, Mr. Alexander.

For Undergraduates and Graduates

124. Topical Work. Yr.; cr. to be arranged. Mr. Hadley and staff.

125. Diseases of Poultry. II; 2 cr. Prerequisite: Poult. Husb. 1. Mr. Beach. (Given in 1921-22 and in succeeding alternate years.)

126. Laboratory Diagnosis. II; 3 cr. Prerequisite: A course in bacteriology. Mr. Hadley. (Given in 1920-21 and in succeeding alternate years.)

AGRICULTURAL EXPERIMENT STATION

H. L. RUSSELL, DIRECTOR.

As the Wisconsin Agricultural Experiment Station is organically associated with the College of Agriculture, members of the college faculty constitute the staff of the Station. The purpose of the Station is the promotion of agricultural science by research and experimentation, and funds for the work come from both state and federal appropriations. Each of the several de-

partments has research continually in progress, some members of the staff devoting the major portion of their time to investigations dealing with all of the problems of the farmer. As far as facilities permit, the subjects selected for research are those of greatest practical importance to Wisconsin farmers.

The publications of the Experiment Station include an annual report and a series of popular bulletins, research bulletins, and poster bulletins. Popular bulletins, including helpful discussions on results of experiments, are distributed free to residents of the state upon application, being issued in editions of 20,000 to 50,000 copies; the research bulletins contain technical data and discussions not designed for wide distribution and are sent to libraries, investigators, etc. Apply for the popular bulletins to H. L. Russell, Director, Madison, Wis.

AGRICULTURAL EXTENSION SERVICE

H. L. Russell, Director.

The extension work of the College of Agriculture is organized to coordinate and extend departmental service among Wisconsin farmers, and farm women, spreading and disseminating information gathered in laboratory and field plot. Under this service three lines of work are carried on:

1. Field demonstration work of the several departments.
2. The county agricultural or home demonstration agent system in which a resident instructor is located in a county.
3. Collective extension instruction given in connection with the farmers' weeks and women's schools, demonstration trains, etc.

Through such instruction and practical demonstrations many thousands of rural people who are unable to come to Madison for resident instruction are aided directly by the College. Many of the extension activities are organized on the project basis, and partly supported by federal funds. This work is in home economics as well as in the field of agriculture. For printed matter and other information regarding this work, apply to K. L. Hatch, Assistant Director.

FARMERS' INSTITUTE

E. L. LUTHER, SUPERINTENDENT.

The Department of Farmers' Institutes of the College of Agriculture is maintained by a legislative provision which appropriates $20,000 annually for the purpose of conducting Farmers' Institutes at various places throughout the state. The superintendent, in co-operation with the Wisconsin Live Stock Breeders' Association and the Wisconsin Horticultural Society, assisted by special conductors and workers, plans to conduct 170 two-day, 20 Light Soils-Live Stock, 60 Women's and such other special activities as the needs require. At each institute "follow-up" work is arranged with farmers having problems and this "follow-up" work will result in summer field demonstrations and institutes.

A Farmers' Institute Bulletin is issued annually in an edition of 30,000 copies and is distributed free of charge.

LAW SCHOOL

H. S. RICHARDS, DEAN, PROFESSOR OF LAW.

Object of the Course

The Law School offers a course of study covering a period of three years. It is designed to teach the fundamental principles of the English and American law in a thorough manner, and to fit the student for the active practice of the profession.

Mortimer M. Jackson Professorship of Law

The late Judge Mortimer M. Jackson by his will gave $20,000 to the University, the income to be used to maintain a chair of law. The Regents in 1890 formally established the Mortimer M. Jackson Professorship of Law. Judge Jairus H. Carpenter, for many years Dean of the Law School, was the first incumbent of this chair, which he held until his death in 1913.

Admission

See p. 109.

Applicants for admission who can satisfy the general entrance requirements and who are 21 years of age will be admitted as unclassified students and entitled to all the privileges of the School in the way of instruction. An opportunity is thus afforded to prepare for the bar examinations in this and other states.

The examinations are conducted at the same time and by the same members of the faculty as the examination of candidates for admission to the College of Letters and Science.

In addition to the other entrance requirements, all candidates for admission to the Law School, whether graduates of accredited high schools or not, are required to take the regular entrance examination in English required for admission to the College of Letters and Science, except,

(a) Students of the University who have already passed such examination;

(b) Graduates of other approved colleges and universities. But the Faculty may require any student to take additional work in English if, in their judgment, it is necessary.

Those intending to apply for examination for admission to the first year class or for advanced standing should notify the Registrar of the University before the beginning of the year and apply for directions, as examinations cannot be taken later.

For dates of examinations see Calendar, p. 8.

Pre-Legal Course

The following courses approved by the Association of American Law Schools are suggested for students preparing for the study of law, where only two years are devoted to such work; English (rhetoric and composition), two years; Latin or Greek, two years; German or French, two years; mathematics, or a natural or physical science, one year; history (including English and American constitutional history), two years; psychology. If three or more years be devoted to such preparation, additional courses in history, natural science, and courses in philosophy, political science, economics, and sociology are suggested.

Advanced Standing

Candidates for advanced standing who can comply with the general entrance requirements of the School as above set out will be given equivalent credit for satisfactory work done in other law schools in good standing having a three-year course, upon presenting properly authenticated certificates of such work. The right is reserved to require examinations in all cases where the credits presented are not regarded as equivalent.

Students in the College of Letters and Science may elect courses in the Law School toward their Arts degree. By enrolling in the combined course in Arts and Law, advanced standing not to exceed one year may be obtained in the Law School.

All persons from other universities or colleges who intend to apply for advanced standing under the above rules should forward or present their credentials to the Dean of the School at least one week before the opening of the particular session which the student desires to attend.

Graduation

The degree of Bachelor of Laws will be conferred upon all candidates of at least twenty-one years of age, of good character, and who, in the judgment of the Faculty, possess satisfactory legal attainments, and who have complied with the following conditions:

(1) Credit for at least seventy-four semester hours (a semester hour is the equivalent of one hour a week for a semester) with a weighted average of *fair*.

(2) Residence of at least three years in a law school of good standing, having a three-year course, the last year of which must have been in this School.

(3) Candidates for graduation, in addition to the above requirements, must serve a clerkship of not less than six months in a law office. The requirement must be absolved at a time when the candidate is not in attendance upon the University. At the option of the candidate the requirement may be met by two periods of not less than three months each. The requirement must be entirely absolved after the student shall have received credit for not less than twenty semester hours in the Law School. Credit for office study will not be granted unless the student complies with the following regulations:

(a) At the beginning of the clerkship, he must file a certificate by his preceptor stating the date on which the clerkship began.

(b) A like certificate showing the date of completion of the clerkship must be filed at the completion of the period.

(c) A monthly report, signed by the student and endorsed by the preceptor, showing the kind and amount of work assigned to the student during the period of the report must also be filed.

Provided, however, that a candidate for graduation who has obtained credit for the courses in evidence, pleading, practice, office practice, and practice court, and who has obtained credit for at least eighty-two semester hours as herein defined, with a weighted average of *fair*, and who has a residence of at least three years and three months in a law school of good standing, having a three-year course, the last year of which must have been in this School, will be relieved from the above requirement of office study.

Students completing the course with distinguished excellence may be recommended for the degree with honor.

The work of the first year is required and such other work of the second and third years as may from time to time be designated by the Faculty.

Admission to the Bar

The statutes of the state provide that any resident graduate of the Law Department of the University of Wisconsin shall be admitted to practice in all of the courts of this state by the supreme court upon the presentation of his diploma, and may be admitted to the supreme court when not in session by an order signed by one of the justices thereof and filed with the clerk of said court. (R. S. Wis., sec. 2586.)

Under this statute and a rule of the federal court, it is customary for the graduating class, on motion of a member of the Faculty, to be admitted to the supreme court of the state and to the district and circuit courts of the United States immediately upon graduation. This entitles them to admission to the bar of any court of record in Wisconsin and all federal courts in the state.

COURSES OF INSTRUCTION

Abbreviations in the announcement of courses: Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e., hours of credit. Unless otherwise stated, the number of credits per semester is given.

The courses of instruction are arranged to present, as far as possible, the fundamental topics of the law during the first year, and the specialized subjects during the second and third years.

First Year

Agency. II; 3 cr. Mr. Richards.
Common Law Actions. I; 2 cr. Mr. Wickhem.
Contracts. Yr.; 6 cr. Mr. Page.
Criminal Law and Procedure. Yr.; 4 cr. Mr. Gilmore, Mr. Hall.
Legal Bibliography. I; 1 cr. Mr. Wickhem.
Property I. (Personal). I; 2 cr. Mr. Rundell.
Property I. (Real). II; 2 cr. Mr. Rundell.
Torts. Yr.; 6 cr. Mr. Gilmore, Mr. Carey.

Second and Third Years

Administrative Law I. I; 2 cr. (Omitted 1921-22.) Mr. Hall.
Administrative Law II. I; 2 cr. Mr. Hall.
Administrative Law III. I; 2 cr. (Omitted 1921-22.) Mr. Hall.
Administrative Law IV. II; 2 cr. Mr. Hall.
Bankruptcy. II; 2 cr. Mr. Wickhem.
Bills of Exchange and Promissory Notes. I; 3 cr. Mr. Wickhem.
Carriers. I; 2 cr. Mr. Hall.
Conflict of Laws. II; 3 cr. Mr. Page.
Constitutional Law. Yr.; 6 cr. Mr. Gilmore, Mr. Carey.
Conveyancing. II; 3 cr. Mr. Rundell.
Corporations. II; 4 cr. Mr. Richards.
Damages. II; 2 cr. Mr. Wickhem.
Equity I. I; 3 cr. Mr. Smith.
Equity II. II; 3 cr. Mr. Smith.
Evidence. II; 4 cr. Mr. Smith.
Future Interests. II; 4 cr. Mr. Rundell.
Insurance. (Omitted in 1921-22.) Mr. Rundell.
International Law. II; 3 cr. Mr. Potter.
Mortgages. I; 2 cr. Mr. Rundell.
Office Practice. II; 2 cr. Mr. Wickhem.
Partnership. I; 2 cr. Mr. Richards.
Persons. I; 2 cr. Mr. Wickhem.
Pleading. Yr.; 4 cr. Mr. Boesel.
Practice Court. II; 1 cr. Mr. Wickhem.
Practice. Yr.; 4 cr. Mr. Sanborn.
Professional Conduct. II; no credit (required). Justice Rosenberry.
Public Service Corporations. II; 2 cr. (Omitted 1921-22.) Mr. Hall.
Quasi-Contracts. I; 3 cr. Mr. Smith.
Sales. I; 3 cr. Mr. Smith.
Servitudes. I; 3 cr. Mr. Rundell.
Suretyship. (Omitted 1921-22.) I; 2 cr. Mr. Wickhem.
Trusts. I; 4 cr. Mr. Richards.
Wills and Administration. I; 3 cr. Mr. Page.

Required and Elective Courses

Candidates for the degree are required to take all the subjects of the first year, twelve hours of work in the second year, and twelve hours in the third year. The work of the second and third

years is elective. Second year students may elect not less than twelve nor more than fourteen hours in courses offered in the second year. Second year students who are graduates of the College of Letters and Science and who have not completed all the courses of the first year will be required to include such omitted courses in their list of electives. Third year students may elect not less than twelve nor more than fifteen hours in courses offered in the third year and in courses not already taken by them when second year students. No student is permitted to count more than twelve hours of work in any one semester toward the total hours required for the degree. Elections in all cases are subject to the approval of the Dean.

Procedure and Practice Courses

Courses in Procedure and Practice extend throughout the last two years and comprise Common Law Actions, two credits, Pleading, four credits, Practice, four credits, Practice Court, two credits. The purpose of the courses is to instruct the student in the principles of pleading and practice at common law and under the codes, by duplicating as far as possible the steps taken by an active practitioner in the preparation for trial of cases at law and in equity throughout the entire field of litigation. The student is required to prepare pleadings in assigned cases, and to carry a cause of action through the various steps from its inception to the final judgment. A practice court is maintained in connection with the work in code practice.

Wisconsin Law Review

The *Wisconsin Law Review* was established in 1920 by authority of the Regents. The *Review* appears quarterly, and deals primarily with questions in Wisconsin law and legal problems of particular interest to Wisconsin lawyers. The Board of Editors consists of the law faculty and a Board of fourteen student editors selected from the student body. Eligibility to the Board is determined largely by scholastic standings.

Elective Studies

Students of the Law School will be permitted to pursue studies in other departments of the University, but not for credit toward the law degree.

Students in the College of Letters and Science will be permitted

to elect, as a part of their undergraduate course, studies in the Law School for which see p. 130.

Students of the Law School may pursue studies for which they are prepared, in other departments of the University, without additional fees in so far as such studies do not interfere with their work in the Law School. Before registering in other departments, the students must obtain permission from the Dean of the Law School.

Library

The Library of the Law School contains 31,000 bound volumes, comprising the official reports of the various states and territories and of the United States; a complete set of English, Irish, and Canadian reports; Australasian Reports, the Reporter System; the various series of selected cases, as American Decisions, American Reports, American State Reports; Lawyers' Reports Annotated; Ruling Case Law; Corpus Juris, American Law Reports, British Ruling Cases; duplicates of the more important reports; complete sets of the leading law periodicals; the leading encyclopedias of law and other works of reference; a large collection of textbooks, statutes, digests, etc.

Fees and Expenses

See pp. 80ff.

Receipts showing the payment of tuition must be filed with the Dean within ten days after entry.

Summer Session

(June 19—August 26, 1922)

The summer session established in 1907 is a regular session of the School. The courses offered are not review courses nor abbreviations of the subjects presented during the regular session. The lectures are given by regular members of the Faculty assisted by experienced teachers from other law schools. Full credit toward the degree in law is given for all work successfully completed. An opportunity is thus afforded to those who for any reason are unable to attend the regular session to obtain thorough and systematic legal instruction. By taking advantage of the summer sessions, regular students of the School can materially shorten the calendar period of residence required for the degree.

MEDICAL SCHOOL

C. R. BARDEEN, DEAN, PROFESSOR OF ANATOMY.

Aims

The aims of the Medical School are threefold:

1. To encourage a thorough preliminary medical education, and to offer adequate facilities for a thorough preparation for clinical work.

2. To promote the development of preventive medicine and hygiene.

3. To stimulate research in the sciences upon which modern medicine is based.

Admission Requirements in the Medical School

See p. 107.

Admission to Advanced Standing

A student who has completed elsewhere work equivalent to that required for matriculation and to that of the first year of the medical curriculum may be admitted to the second year of the medical course.

Medical Certificates

Upon the successful completion of the two years of the medical curriculum at Wisconsin, a student will be given a formal certificate. A student who completes less than the two years of the medical course may, however, obtain credentials covering the pre-medical and medical studies which he has pursued.

Degrees

The Medical School offers merely the first two years of a four-year medical curriculum and confers no degrees. The College of Letters and Science confers the degree of bachelor of science

upon the students registered during the junior and senior years in the Medical School, and the degree of bachelor of science or of bachelor of arts upon students registered during the senior year in the Medical School, who meet the requirements for the respective degrees. The degrees of master of science, master of public health, doctor of philosophy and doctor of public health are conferred by vote of the graduate faculty upon graduate students who specialize in the medical sciences and fulfill the requirements of these degrees, which are described in the section devoted to the Graduate School.

Bachelor of Arts

The regular requirements for the degree apply to those students who elect the work of the first year of the medical course during the senior year in the College of Letters and Science.

Bachelor of Science
(Medical Science Course)

Students in the College of Letters and Science who are candidates for this degree are required to take the following studies:

a. English: 6 credits (3 hours per week per semester) to be taken in the first year of residence.

b. Foreign language. (1) A knowledge of elementary Latin (equivalent to two years of high school Latin); (2) A reading knowledge of German or French. This reading knowledge shall be determined by the respective departments and will ordinarily be the equivalent of six credits beyond first year French or of four credits beyond second year German. At least two years of work in foreign language shall be taken in college.

c. Courses in physics, chemistry, biology, and the medical sciences as outlined in the requirements of the Medical School. The requirements made of candidates for the degree of bachelor of arts that six unit hours shall be elected in either history or mathematics does not apply to candidates for the degree of bachelor of science (Medical Science Course).

Elective work should be chosen with the intention of making the course of study broad as well as thorough.

d. Major Study. At the beginning of the sophomore or the junior year, every candidate for the degree of bachelor of arts or bachelor of science shall elect as his major subject work in some one department. This department will determine the manner in which the work of the major shall be completed.

e. Thesis. All candidates for a baccalaureate degree are required to present a graduating thesis, the subject of which must be approved by the student adviser and the chairman of the department in which the candidate is doing the work represented by the thesis. The thesis must represent some phase of the student's work in his major study, and must have the character of a scholarly dissertation on the subject.

The following science studies are required:*

Pre-Medical Work

	Lectures and Recitations	Laboratory Hours	Credits
Chemistry 1	128	192	10
Organic Chemistry 120	48	96	4
Physics 1 or 1Sc	160	128	10
Biology	96	256	10
	432	672	34
Study required in the first year of medical course if not presented for matriculation			
Embryology	16	48	2
First Year Medical Course			
Histology	32	112	4
Neurology	32	80	4
Gross Anatomy	32	352	12
Physiology	112	128	9
Physiol. Chemistry	20	140	4
	228	812	33
Second Year Medical Course			
Pathology	80	192	8
Bacteriology and Hygiene	64	112	5
Pharmacology and Toxicology	64	144	6
Clinical Medicine	64	128	6
	272	576	25

Required of candidates for a bachelor's degree: Thesis: 128 laboratory hours (4 units).

Required and elective work may be arranged according to one of the following plans:

1. Six-Year Combined Course (Leading to the B.S. and M.D. Degrees)

*It is recognized that similar courses at other institutions may not correspond with the scientific courses given at Wisconsin. This will not prevent full credit being granted for approximately equivalent courses pursued elsewhere.

If the student has a thorough preparation in the high school, he may take work in the freshman and sophomore years which will enable him to matriculate in the Medical School in his junior year, take the B.S. degree and get a certificate for two years of medical study at the end of the senior year, and complete his medical course by two years' further study in any medical school which does not require more than two years of college work for entrance. During the freshman and sophomore years such a student will have to confine himself closely to the work in science and language required for matriculation in the Medical School. The exact choice of studies will depend somewhat upon the high school training and the ability of the student.

The following schedule is suggested:

Freshman Year

	Credits
English 1a and 1b	3
German or French	4
Chemistry 1	5
Electives	3

Sophomore Year

German or French	4
Physics 1	5
Biology 1	5
Organic Chemistry 120, I	4
Embryology 115, II	2

Junior Year
(First Year in the Medical School)

First Semester	Credits	Second Semester	Credits
Histology 110	4	Neurology 126	4
Human Anatomy 121	8	Human Anatomy 121	4
Physiol. Chem. 104	4	Physiology 105	9

Senior Year
(Second Year in the Medical School)

Pathology 101	6	Pathology	2
Medical Bacteriology 102	5	Toxicology 101-2	2
Pharmacology 104-5	4	Clinical Medicine 101-103	10
Thesis	2	Thesis	2

2. Seven-Year Combined Course (Leading to the B.A. and M.D. Degrees)

In this course the student matriculates as a first-year medical student during his senior year in the College of Letters and Science, receives the B.A. degree upon graduation, and takes the

second year of the medical course as a graduate student. He can then finish the clinical portion of the medical course by two years' further study, thus making the combined arts and medical course seven years. This course is in many ways preferable to the six-year combined course since it permits a greater freedom of election and a broader course of study. The language and science work should follow somewhat the lines laid down for the freshman and sophomore years in the six-year combined course, but can be more spread out and taken in conjunction with various electives to suit the needs and inclinations of the student.

3. Complete Arts Course Preceding the Medical Course

Students who can afford the time may take the complete arts course before beginning the technical work of the medical course. A bright, well-trained student not infrequently manages to take the B.A. degree in three years. For such a student, the time needed for the two degrees would be the same as that mentioned above. For other students eight years are required, four for the B.A. course and four for the medical course. A far broader training is thus afforded than in the shorter combined course. Students expecting to finish the clinical part of the medical course at the Johns Hopkins, Cornell or Western Reserve University must choose either the course of study mentioned above or the seven-year combined course.

The work in sciences and foreign language should include all of that mentioned in the first two years of the six-year combined course and may profitably extend beyond this.

Full credit for one year of medical work will not be allowed unless the required preliminary studies and the studies of the first year of the medical course have been completed, and the student has been registered two semesters in the Medical School. Full credit for two years of medical work will be granted only to those who have satisfied the preliminary requirements, who have registered for two college years as medical students, and who have completed all the required studies of the regular curriculum.

4. Courses Leading to M.P.H and Dr.P.H.

In conjunction with the State Department of Public Health and with the Department of Health of Milwaukee, a course is offered extending over one year and leading to the degree of Master of Public Health. This course will be open to those who have re-

ceived a degree in medicine or in medical or sanitary science and desire to fit themselves especially for public health work. It is also planned to offer a short course each year for those already engaged in public health work, but who desire more insight into certain aspects of this work. The following course leading to the degree of master of public health is announced for the year 1919-20. Candidates for the degree of doctor of public health are required to do advanced work and to write a thesis in addition to completing the work covered by this course.

First Semester	Credits	Second Semester	Credits
Hygiene 102	5	Hygiene 106	3
Hygiene 110	5	Hygiene 120-121	5
Hygiene 115	2	Hygiene 126	3
Hygiene 125	3	Pathology 104	4
		Zoology 19	3

Various other courses are also open to election.

Courses for Physicians

The regular courses in the various departments are open to physicians. It is hoped gradually to develop such shorter special courses as may be of greatest direct practical benefit to the physicians of the state in aiding them to keep up with the rapid advance in the medical sciences. Suggestions concerning such courses are desired.

Scientific Investigations

It is desired that the facilities of the various laboratories of the Medical School be utilized to the greatest advantage in the investigation of the causes and prevention of disease both in man and animals. The laboratories of the Medical School are freely open to those engaged in such investigations, and, as far as possible, aid will be given in the carrying out of investigations of this character either at the University or elsewhere in the state.

DEPARTMENTS OF INSTRUCTION

Abbreviations in the announcement of courses: Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e., hours of credit. Unless otherwise stated, the number of credits per semester is given.

For a description of the courses in botany, zoology, chemistry, physics, psychology, climatology, and languages, see departmental announcements in the College of Letters and Science.

ANATOMY

PROFESSORS BARDEEN, W. S. MILLER; ASSISTANT PROFESSORS SULLIVAN, BAST; INSTRUCTOR GEIST; ASSISTANTS CONRAD, EDWARDS, MADISON, MUELLER, SUTLIFF.

A group of courses intended to offer a comprehensive view of the gross and microscopic anatomy and the embryology of mammals with especial reference to man is given in this department. In addition, opportunities are offered for advanced work and research in anatomy and for a study of some of the lower animal types of special interest in medicine.

For Undergraduates and Graduates

110. Histology and Organology. I; 4 cr. Dr. Bast.

115. Mammalian Embryology. I or II; 2 cr. Dr. Bardeen.

120. Anatomy. For students of physical education. II; 6 cr. Dr. Bardeen.

121. Human Gross Anatomy. Yr.; 6 cr. Dr. Bardeen, Dr. Sullivan.

122. Topographical Anatomy. I or II; 3 cr. Dr. Bardeen.

123. Special Human Anatomy. Those qualified to do independent work may make some special arrangement for the study of human anatomy.

126. Neurology. II; 4 cr. Dr. Bast.

130. Advanced Anatomy. Dr. Bardeen.

131. Historical Seminary. II; 1 cr. Dr. Miller.

For Graduates

235. Investigation under Direction.

240. Independent Investigation. Facilities for conducting research in anatomy are offered.

CLINICAL MEDICINE

PROFESSORS EVANS, VAN VALZAH; ASSOCIATE PROFESSOR LORENZ; ASSISTANT PROFESSORS MIDDLETON, MORRIS, ROBBINS, REID; LECTURERS DEAN, DRAKE, JACKSON, GREELEY, TORMEY; INSTRUCTORS BLANKINSHIP, CURL, DONOVAN, GONCE, TENNEY; ASSISTANTS DR. ZELLMER, MRS. ELLIOTT, MISS GIRYOTAS, MISS KANDEL, MISS THEWLIS.

101. Clinical Diagnosis. II; 5 cr.
102. Clinical Laboratory Diagnosis. II; 3 cr.
103. Minor Surgery and Bandaging. II; 2 cr.
104. X-Ray Technique.
105. Medical Specialties. II; 1 cr.

HYGIENE

PROFESSORS EVANS, EYSTER, CLARK; ASSOCIATE PROFESSOR STOVALL; ASSISTANT PROFESSOR DAWSON.

In conjunction with the staff of the State Laboratory of Hygiene, the State Board of Health, and the Board of Health of Milwaukee, courses in hygiene are offered by members of the Faculty of the Medical School under the general supervision of Dr. Clark.

For Undergraduates and Graduates

102. Bacteriology for Health Officers. I; 5 cr. Dr. Clark, Dr. Stovall.

104. Immunity. II; 4 cr. May be taken as thesis course with additional assignments. Dr. Clark.

106. Physiology for Health Officers. II; 3 cr. Given in conjunction with courses 106 and 107 in medical physiology, but with special reference to the needs of the health officers. Dr. Eyster, Dr. Dawson.

107. Sanitary Bacteriology. II; 3 cr. Designed for students interested in the bacteriological problems involved in the public control of water, sewage, and food. Dr. Clark.

110. Pathology and Hygiene for Health Officers. I or II; 3 cr. Given in conjunction with pathology 101 and clinical medicine 102, but with special work for health officers. Dr. Bunting, Dr. Clark, Dr. Evans, Dr. Stovall.

115. Public Health Administration and Vital Statistics. I; 2 cr.

120. Practical Field Work. II.

121. Practical Field Work.

PATHOLOGY AND MEDICAL BACTERIOLOGY

PROFESSORS BUNTING, CLARK; INSTRUCTORS BAILEY, DAVIDSON, BROWN, YOUNG, ZELLMER; ASSISTANTS GREGORY, LINGENFELTER.

For Undergraduates and Graduates

Courses 101, and 103 are open to students who have successfully completed courses in histology and embryology. Courses 101 and 102 are required of medical students.

101. General and Special Pathology. I; 7 or 8 cr. Continues for 5 weeks into second semester. Dr. Bunting.

102. Medical Bacteriology. I; 5 cr. Dr. Clark.

103. Experimental Pathology. II; 4 cr. Dr. Bunting, Mr. Leake.

104. Immunity. II; 4 cr. Prerequisite: course 102. Dr. Clark.

107. Sanitary Bacteriology. II; 3 cr. Dr. Clark.

For Graduates

204. Advanced Pathology. Dr. Bunting.

205. Journal Club. Yr.; 1 cr.

206. Advanced Bacteriology. Dr. Clark.

PHARMACOLOGY AND TOXICOLOGY

PROFESSOR LOEVENHART; INSTRUCTORS BRUNQUIST, MCGARY, LEONARD; ASSISTANTS HESS, SCHNELLER.

Elementary and advanced courses in pharmacology and toxicology are offered in this department. For the elementary courses a previous training in physiological chemistry and physiology is required. The advanced courses are open to those who have had adequate elementary training.

For Undergraduates and Graduates

101. Toxicology. II; 1 cr. Dr. Loevenhart.

102. Toxicology. II; 1 cr. Dr. Loevenhart.

104. Pharmacology. I; 2 cr. Dr. Loevenhart, Mr. Brunquist, Mr. McGary.

105. Pharmacology. I: 2 cr. Dr. Loevenhart, Mr. Brunquist, Mr. McGary.

108. Advanced Work. Dr. Loevenhart.

112. Independent Investigation.

116. Journal Club. Yr.

PHYSIOLOGY

PROFESSORS EYSTER, MEEK; ASSISTANT PROFESSOR DAWSON; INSTRUCTORS HODGES, LEAKE, CROSKEY; ASSISTANTS PFEFFERCORN. TASCHE.

The following courses are designed especially for students studying medicine. As a preparation for course 105, comparative anatomy, histology, and neurology (Anatomy 105, 110, and 126), and Physiological Chemistry 104 are recommended.

For Undergraduates

1. Elements of Physiology. I; 3 cr. Especially adapted to teachers of elementary physiology and hygiene. Required of sophomores in home economics (2 cr.) and open to other students. Students should have had some chemistry. Dr. Meek, Dr. Dawson.

2. Elements of Physiology. I: 1 cr. Laboratory. Required of sophomores in home economics; open to others as an elective. Dr. Meek, Dr. Dawson.

3. Animal Physiology. II; 4 cr. Especially designed for students in agriculture, but open to other students. Dr. Meek.

For Undergraduates and Graduates

105. Physiology. II; 9 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: comparative or human anatomy, histology, neurology, and physiological chemistry. Dr. Eyster, Dr. Meek, Dr. Dawson.

115. Physiology. II; 7 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: comparative anatomy and physiological chemistry. Dr. Eyster, Dr. Meek, Dr. Dawson.

116. Physiology of Exercise. I; 3 cr. Required of seniors in

physical education and open to others as an elective. Prerequisite: Physiology 105 or 115. Dr. Eyster, Dr. Meek, Dr. Dawson.

118. Advanced Physiology and Research. Yr.; credit according to work done. Dr. Eyster, Dr. Meek.

120. Journal Club. Yr.; 1 cr. Reports on recent physiological and biochemical literature. Dr. Eyster.

For Graduates

208. Advanced Laboratory Course in Physiology. Designed for teachers of animal physiology as well as for physicians and students of medicine who desire a wider experience in experimental physiology than can be gained in course 105. Dr. Eyster.

PHYSIOLOGICAL CHEMISTRY

PROFESSOR BRADLEY; INSTRUCTORS GODSHALL, KOEHLER, SEVRINGHAUS; ASSISTANTS ELLIOTT, KESTEN.

Course 104 is open only to those who have had a previous training in general and organic chemistry (courses 1 and 120), physics (course 1 or 1Sc), and general biology (course 1).

For Undergraduates and Graduates

104. Physiological Chemistry. I; 4 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: general and organic chemistry, physics, and biology. Dr. Bradley.

114. Physiological Chemistry. I; 3 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: general and organic chemistry, physics, and biology. Dr. Bradley.

117. Advanced Physiological Chemistry and Research. Yr.; credit according to work done. Dr. Bradley.

For Graduates

210. Advanced Laboratory Course in Physiological Chemistry. Corresponds to Physiology course 208.

GRADUATE SCHOOL

CHARLES S. SLICHTER, DEAN

General Statement

The University of Wisconsin is a part of the system of public instruction provided by the state, but is open to all properly qualified students without regard to state lines. It is the aim of the University to offer opportunities for advanced instruction and research to as wide a constituency as possible. No limitations are placed upon a student's freedom in research and in the expression of his conclusions upon subjects which he is prepared to treat, but the University avoids all that is partisan in politics and sectarian in religion, without debarring its members from investigation and activity in any field.

Organization

The work of the Graduate School is under the general direction of the Graduate Faculty. The Dean of the Graduate School is charged with general supervision of all graduate students and is the medium of communication between such students and the University administration.

Aims and Methods

The Graduate School aims to serve the needs of men and women of college training or equivalent attainment who desire a larger and more thorough acquaintance with the scholarship and research of the world than can be obtained in the current undergraduate course. It seeks to awaken in the minds of capable men and women an appreciation of high scholarship, research, and the advancement of learning, to the end that they may effectively aid not only in the promulgation of academic instruction but also in extending the boundaries of knowledge.

In all departments of the Graduate School special emphasis is laid upon bringing the graduate student into contact with the

research problems of his field of study. To this end able students share in the investigations of their instructors and are encouraged to acquire the spirit as well as the methods of productive work. Provision has been made by the University for the publication of the results of special meritorious work of this kind, and doctors' theses of more than common merit are occasionally thus published.

Admission to the Graduate School

Graduates of the four-year courses of the various colleges of the University of Wisconsin are eligible for admission to the Graduate School without examination. Graduates of other institutions in which the requirements for first degrees are substantially equivalent to those at the University of Wisconsin will be admitted to the Graduate School upon filing in the Graduate office an official transcript of their undergraduate record.

Undergraduates of the University of Wisconsin who have completed all requirements for the baccalaureate degree with the exception of six credits or less may be admitted to the Graduate School before the degree is actually conferred.

Graduates of other institutions in which the requirements for the first degree are not equivalent to those at the University of Wisconsin, may be admitted to the Graduate School (but not to candidacy for an advanced degree), if their training is regarded as less than one year short of that required for the baccalaureate degree at the University of Wisconsin.

Graduate students are invited to confer freely with the Dean of the Graduate School in all matters concerning their relations to the University.

Registration in the Graduate School

Graduate students will register in the office of the Dean, Room 157, Bascom Hall, and (if not a graduate of the University of Wisconsin) file in that office an official transcript of their undergraduate record. The Dean will approve the registration of the student in the Graduate School, and issue to him an election card for presentation to his major professor and instructors under whom he desires to study. This election card, after being approved by the major professor and each instructor, should be promptly returned to the Graduate Office. Upon the completion

of his registration in the Graduate Office the student should immediately register with the University Registrar, who will provide a statement of fees to be paid to the University Bursar.

At the opening of each semester graduate students are required to re-enroll in the Graduate Office.

Clubs and Societies

To promote interest in problems of scholarship and investigation, and for training in the presentation of results, numerous voluntary clubs and societies have been established by instructors and students in the Graduate School. Among these are the Sigma Xi, Classical Club, Language and Literature Club, Historical Conference, Romance Language Club, Graduate Club in Education, German Journal Club, Chemical Club, Biological Club, Mathematical Club, Mining Club, University of Wisconsin Branch of the American Institute of Electrical Engineers, Wisconsin Section of the American Chemical Society, University of Wisconsin Section of the American Electro-chemical Society.

The Graduate Club, while sharing in these purposes, is primarily a social organization for the promotion of acquaintance and good fellowship among graduate students and members of the faculty.

University Research Fund

The State Legislature has provided the sum of $30,000 for the promotion of research in the University. The University Research Committee receives applications for allotment of funds for research projects for which special aid is needed and for which adequate funds are not available from other sources.

Fellowships and Scholarships *

University Fellowships

For the purpose of promoting higher scholarship and research the Regents of the University have established twenty-six University Fellowships of the annual value of $500 each. These are allotted to the several departments of instruction as follows:

To Economics, two; to History, two; to Geology, and the biological sciences (zoology), two; to Engineering, two; to Agricul-

*With the exception of honorary fellows, all fellows and university scholars are required to pay the incidental fee.

ture, four; to the following departments and groups of departments, one each, viz., Botany, Political Science, Sociology, Latin, Greek, German, Romance Languages, Chemistry, Physics, Mathematics and Astronomy, Philosophy and Psychology, Education, Home Economics, Semitics.

To the above should be added certain endowed fellowships specially described upon the following pages.

The following are regulations respecting fellowships and scholarships:

1. Any fellowship to which the present regulations apply may be held by any graduate of a college of recognized standing or by anyone whose education is equivalent to that represented by a college degree. Those about to take such a degree are eligible candidates, the regulations applying to the time of entrance upon the duties of the fellowship. Men and women are equally eligible. Preference in appointment will usually be shown to candidates who possess a competent reading knowledge of French and German.

2. Fellowships will be granted only upon application, which should be made upon a special blank form furnished by the Dean of the Graduate School; such application, with accompanying evidence of merit, attainment, and ability, to be in the hands of the Dean of the Graduate School before March 1st of the collegiate year preceding that during which the fellowship is to be held.

3. All fellowships will be filled each year. Fellows may be reappointed for one additional year only.

4. Application must be accompanied by evidence of scholarship, ability, and general worthiness; such as theses (whether prepared for this or other purposes), published writings, testimonials from instructors, outline of educational course pursued, special distinctions gained and the like. Applications for reappointment should contain a full account of the work of the preceding year. Applications to receive attention must contain a definite statement of the special studies which the applicant intends to pursue.

5. Each fellow should pursue his studies under the direction of an assigned professor or professors. Assignment of university services to the fellow shall be made by the President in consultation with the head of the department to which the fellow has been assigned, and the work assigned may be equivalent to one hour of teaching daily.

6. Vacancies in fellowships, due to resignation or other cause, may be filled as they occur, at the option of the Faculty.

Honorary Fellowships

The Regents have established honorary fellowships, equal in number to the University Fellowships, and filled in a similar way. These are restricted, however, to persons who have already held academic honors, such as fellowships or teaching or research ap-

pointments. No compensation is attached to these positions except the remission of university fees, and no teaching service is required; but to be eligible to an honorary fellowship one must be a graduate of at least one year's standing.

Wisconsin Legislative Scholarships

There are available in the Graduate School of the University of Wisconsin to nonresidents of this state, a number of so-called Legislative Scholarships which pay the recipient $124 per year, or an amount equal to the nonresident tuition fee. The assignment of these scholarships is in the hands of a sub-committee of the Graduate Committee of the University. Candidates for these scholarships should apply to the Dean of the Graduate School for an application form and submit to that office a transcript of their undergraduate record, and of any graduate work already completed.

School of Education Fellowships

Two resident fellowships, with an annual value of $500 each, are provided in the School of Education. These fellowships are assigned by vote of the Faculty of the School of Education to graduate students who are interested primarily in the problems of teaching secondary school subjects.

The purpose of these fellowships is to encourage advanced work toward higher degrees by students who expect to take charge of special teachers courses in normal schools, colleges and universities. They are, however, open to experienced teachers preparing for work in secondary schools. The holders of these fellowships are expected to do graduate work in the departments concerned and in the Department of Education. It is expected that the research work will be under the joint supervision of the Director of the School of Education and the adviser selected in the department in which the fellowship is assigned.

Further information concerning these fellowships may be obtained from the Director of the School of Education.

Albert Markham Memorial Graduate Traveling Fellowship

In accordance with the terms of a bequest from the estate of the late Albert Markham, founder and principal of Markham Academy, Milwaukee, the Albert Markham Memorial Graduate Traveling Fellowship is offered annually in the departments of

language and literature of the University of Wisconsin to holders of a Ph.D. degree, and is administered by a committee representing those departments. The annual income is approximately $800 but temporarily this may be increased to $1,000.

The major work of the appointee must lie in one of the departments of language and literature. He is expected to devote the year to foreign travel and study in foreign universities, but by special permission he may study at some other American university.

Mary M. Adams Graduate Fellowship in English

By will the late Charles Kendall Adams, formerly president of the University of Wisconsin, conveyed the larger part of his estate to the Regents of the University for the gradual establishment of fellowships in Modern History, Greek, and in the English Language and Literature. The first of these fellowships, the Mary M. Adams Graduate Fellowship in the English Language and Literature became available in the academic year 1906-07, since which time the annual amount paid to the incumbent has ranged from $500 to $550.

Charles Kendall Adams Graduate Fellowship in Greek

The second of the graduate fellowships established by the will of the late President Adams became available in the academic year 1913-14. It is called the Charles Kendall Adams Graduate Fellowship in Greek, and its value to the incumbent is approximately $550.

Charles Kendall Adams Fellowship in Modern History

The first appointment to a fellowship bearing the above title was made for the academic year 1918-19. Its value to the incumbent is approximately $550.

Working Fellowships

In certain departments of the state government provision is made for part time service to be rendered by graduate students whose university studies are in related branches of economics or political science. These positions are filled through the state Civil Service Commission to which application may be made for further information.

Graduate Scholarships

The Regents of the University maintain twenty-eight graduate scholarships of the value of $250 each. Two of these are designated for Economics, one for Political Science, one for European History, one for American History, six for Agriculture, and three for Engineering. Appointments to these scholarships are in general made in the same manner as appintments to fellowships. By special provision authority is conferred upon the faculties of Beloit, Carroll, Lawrence, Milton, Milwaukee-Downer, Ripon and St. Clara Colleges to nominate annually to the Faculty of the University of Wisconsin one member of their respective senior classes as a suitable candidate for a university scholarship. Such candidates, when duly appointed by the Regents of the University, shall be in all respects upon the same footing as other university scholars.

Hollister Fellowship in Pharmacy

Mr. and Mrs. Albert H. Hollister, late of Madison, by separate wills, conveyed to the Regents of the University legacies, now amounting to $10,328, for the establishment and maintenance of a fellowship in pharmacy. The annual income of this sum is allotted to a graduate student appointed upon recommendation of the Department of Pharmacy.

Henry Gund Scholarship

Through the generosity of Mr. Henry Gund, of La Crosse, there has been established the Henry Gund Scholarship in German Literature of the annual value of approximately $290.

Fellowships and Scholarships in German

Available for the year 1922-23: The Albert C. Elser Fellowship $500, The Fred Vogel, Jr. Fellowship $500, The Gustav Pabst Fellowship $400, The Charles F. Pfister Fellowship $400, The Henry Schoelkopf Scholarship $250, The Albert F. Gallun Scholarship $200, The Albert Trostel Fellowship $200.

Other Scholarships and Fellowships Available in 1922-23

During the current year there are available the following scholarships and fellowships:

The Fritzsche Brothers Fellowship in Pharmacy of the value of $500 is offered by the Fritzsche Brothers of New York. The holder of this fellowship is to do research work in plant chem-

istry with special reference to the Monardas and related problems.

The Newport Chemical Company provides a fellowship, or fellowships, in Pharmacy of the value of $1,000 to be devoted to research work along the line of synthetic new remedies.

The du Pont Fellowship in Chemistry of $750 is offered by E. I. du Pont de Nemours and Company of Wilmington, Del.

Two scholarships consisting of $500 each with remission of tuition fees are offered for French young women. These young women are to reside in the French House.

The Wisconsin Gas Association provides a fund of $500 for a fellowship in gas engineering, department of chemical engineering.

The Wisconsin chapter of Omicron Nu offers a yearly scholarship open to either graduate or undergraduate students. It returns from $200 to $250 a year.

Research Assistantships in the Forest Products Laboratory

In accordance with the regulations of the United States Civil Service Commission, a limited number of students who show unusual ability in research may be appointed as student research assistants by the Forest Service and Bureau of Plant Industry. The entire time of the student is given to lecture or class work in the University and to research in the Forest Products Laboratory. The salary varies from $200 to $500 a year and laboratory fees will be remitted for work in the Forest Products Laboratory. The number of students thus appointed will depend largely upon the funds available. There are also established under similar conditions two Forest Products Laboratory Fellowships. Applications for these assistantships and fellowships, accompanied by testimonials, should be sent to Director C. P. Winslow, Forest Products Laboratory, Madison, Wis., before March 1 of the collegiate year preceding that during which such appointments are to be held.

Second Degrees

The University of Wisconsin confers the following second degrees: master of arts, master of science, master of philosophy, civil engineer, mechanical engineer, electrical engineer, chemical engineer, engineer of mines. See below for other second degrees.

These degrees are conferred in accordance with the conditions set forth below, upon graduates of the University of Wisconsin and upon graduates of other institutions of learning whose training has been substantially equivalent to that represented by the baccalaureate degree of the University of Wisconsin. The University will determine this substantial equivalent of training by such methods as seem best adapted to each case, and may impose upon any candidate such additional requirements as seem needful and just.

The degree, master of arts, is conferred upon candidates whose undergraduate work corresponds to that now leading to the degree, bachelor of arts, as conferred by the University of Wisconsin. The degree presupposes training in foreign language substantially equivalent to that required in the University of Wisconsin for the bachelor of arts degree. The University reserves the right to test by its own methods the adequacy of such training.

The degree of master of science will be conferred only upon candidates who are adequately trained in mathematical, chemical, physical or biological science. The undergraduate preparation should be equivalent to that leading in the University of Wisconsin to the B.S. degree or to the B.A. or Ph.B. degree with major in science.

The degree, master of philosophy, is conferred upon candidates whose undergraduate training corresponds to that leading to the degree of bachelor of philosophy as conferred by the University of Wisconsin.

Candidacy for the above degrees is normally based upon resident study at the University, but provision is made whereby a measure of credit may be extended to work done *in absentia*. In no case, however, will a master's degree be conferred in course without one semester of resident graduate study at the University of Wisconsin and the equivalent of another semester's work done, under approved conditions, elsewhere.

The following regulations for the attainment of second degrees apply to all candidates in residence.

1. During a period of at least one academic year the candidate must pursue a course of graduate study characterized by definiteness of purpose and approved by the University as appropriate to that purpose and suitable in amount. Such a course includes normally for each semester assigned graduate work carrying from nine to twelve credits and at least one-half of this work

must lie in a single department. The undergraduate preparation of the candidate must be sufficient to satisfy the instructor that the advanced work may be profitably undertaken. Undergraduate courses of suitable character may be elected in addition to the normal amount of graduate work, provided that the recommendation of the professor in charge of the student's major and the approval of the Dean of the Graduate School be obtained in advance.

2. Students who during their candidacy for the master's degree are engaged in teaching, or other remunerative employment, will be required to devote to their studies such period longer than one year as may be designated by the Graduate Committee.

3. For students seeking to specialize in a definite line of study the preparation of a thesis may be required, and subject to the approval of the professor in charge, such thesis work may be elected by others. A typewritten copy of the completed thesis bearing the approval of the professor under whom it is taken must be filed with the Librarian of the University.

4. The candidates must sustain an oral examination upon the preliminary training and the graduate work offered in support of his candidacy. The time and place of this examination will be determined and the examining committee appointed by the Dean of the Graduate School.

Master of Science in Engineering

The degree of Master of Science in Engineering (the diploma to contain a specific designation of the course taken, as for example, Master of Science in Civil Engineering) will be conferred upon candidates whose undergraduate work corresponds to that leading to the degree Bachelor of Science in Engineering, as conferred at the University of Wisconsin, under the following conditions:

1. The candidate shall satisfy all of the general regulations pertaining to second degrees described in the preceding section.

2. The candidate must maintain a *superior grade* in his graduate work.

3. The candidate is required to submit a thesis giving evidence of analytical investigative work. The study may be of an economic, historical, statistical, theoretical, or experimental type. A typewritten copy of the complete thesis, bearing the approval of the professor under whom it is taken, must be filed with the

librarian of the University on or before June first of the year in which the degree is conferred.

4. A graduate from the College of Engineering of this University or a graduate from another school with equivalent preparation who continues his studies in the same branch of engineering in which he obtained the bachelor's degree, can complete the requirements for the master's degree in engineering in one year.

5. A graduate whose training has not been equivalent to that offered in the College of Engineering of this University will be required to spend more than one year in graduate study before he will be granted his advanced degree. If the student is required to do more than one semester's work to make up the undergraduate requirements in the College of Engineering of this University, he will not be allowed to register in the Graduate School, but must enroll in the College of Engineering.

6. The Advanced Standing Committee in the College of Engineering, subject to the approval of the Graduate Committee, shall determine whether the student is sufficiently prepared to do graduate work or whether he should enroll in the College of Engineering.

The Professional Engineering Degrees

The degrees of Civil Engineer, Mechanical Engineer, Electrical Engineer, Chemical Engineer, and Engineer of Mines will be granted to graduates from the College of Engineering of the University of Wisconsin, who have spent five years in professional and educational work, (during one of which they must have been in responsible charge), who have proved their ability to plan or to design as well as to direct engineering work or original investigation along engineering or scientific lines, and present an acceptable thesis.

The thesis shall give evidence of professional attainment. It shall be in such form and of such an original contributive or analytical character as to make it suitable for publication in the proceedings of the appropriate national engineering society. The thesis may be an engineering study of an economic, design, or research nature. It may not be a mere description of usual engineering work or a digest of engineering literature.

The professional degree will be granted in the course in which the candidate has received his B.S. or M.S. degree, unless the candidate requests otherwise, and, with his request, submits

satisfactory evidence of his scientific attainments in the field in which the professional degree is requested.

Graduates who hold the degree of M.S. in Engineering from the University of Wisconsin are credited with two years professional work.

A copy of the thesis must be in the hands of the Dean not later than May 1, if the candidate is to receive his degree at the following Commencement.

Second Degree in Medicine

The degree of master of public health will be conferred upon graduates of approved medical colleges who satisfactorily complete one year of graduate work in sciences related to public health. For a detailed statement regarding this degree application may be made to the Registrar.

Second Degrees for Students in Professional Colleges

Graduates of approved institutions who are regularly enrolled in the professional colleges of this University may supplement their professional studies by work taken in the Graduate School. Upon the completion of an approved course of study they will be admitted to examination for the master's degree, to be conferred at the time of their graduation from the professional college. The course of study thus prescribed for the attainment of the master's degree may be expected, normally, to require one-third of the student's time for a period of two years.

Candidacy for the Master's Degree Partly in Absentia

By consent of the departments concerned, any person eligible to candidacy for a second degree, who has done satisfactory graduate work during one summer session of the University, may be admitted to candidacy for a master's degree upon the following terms:

1. The candidate must conform to all of the above regulations for candidates for the master's degree with exception of the requirement of residence at the University.

2. During a period of two consecutive years, while not in residence at the University, the candidate must pursue a course of advanced study previously arranged and approved by some department of the University and attested by a signed statement filed with the Dean of the Graduate School. See Rule 3 below.

This work is designated his major study, and during two or more summer sessions, in addition to the one above named, he must pursue, at the University, work in continuation of, or collateral to, this major; for example, laboratory or seminary work in the department in which the major is taken. The *absentia* work is expected to equal in amount that normally accomplished in three summer sessions. But, experience having shown that in many cases this amount of work cannot be done within two years by teachers and other persons charged with onerous duties, the University reserves the right to impose in such cases four or more summer sessions as the minimum period of residence, with corresponding diminution of the work *in absentia*.

3. As some departments of the University do not concede the privilege of candidacy *in absentia*, the applicant for this privilege must arrange in advance with the department concerned for its approval of the proposed work and must show that he has access to adequate facilities for its prosecution. A form showing that such arrangement has been made must be completed and filed with the Dean of the Graduate School at or before the close of the first summer session of candidacy. By consent of the department and of the Dean of the Graduate School, graduates of the University of Wisconsin may enter upon the *absentia* work above prescribed, without prior residence in the Graduate School. For all other candidates residence at the University of Wisconsin for one summer session, or its equivalent, will be required as a prerequisite to approval of candidacy by this method. Continuous supervision by the University cannot, in general, be given to work done *in absentia*, and its amount and character will therefore be tested at the opening of each summer session by examination upon the ground covered *in absentia* during the preceding year.

4. Work done *in absentia* will not shorten the residence requirement for the degree of doctor of philosophy in case the student should later become a candidate for that degree.

5. All absentia assignments will be made in writing and filed in the office of the Graduate School.

6. A thesis is required of all candidates working on the *absentia* basis.

7. The residence assignment for a summer session shall consist of work in a major department yielding from 4 to 6 credits.

8. As far as practicable, the supervising of work *in absentia* will

be done by the departmental representative in the Extension Division, with such arrangement for fees as may be required.

Degree of Doctor of Public Health

The degree of doctor of public health (Dr. P.H.) is open to holders of the degree of doctor of medicine from medical schools recognized as maintaining satisfactory standards. Candidates for the degree of Dr. P.H. must spend at least two years subsequent to the regular medical course in the study of sciences related to hygiene and public health. The last of these years must be spent at the University of Wisconsin and must be devoted chiefly to work upon a special subject leading to a thesis containing some original research acceptable to the Executive Committee of the Medical School. The general requirements for the degree are essentially similar to those specified for the degree of doctor of philosophy with the following exceptions:

1. The language requirements are those maintained for the B.S. degree (Medical Science Course).
2. The time requirements are as outlined above.
3. The preliminary examination of the candidate is to be conducted by and his thesis approved by the Executive Committee of the Medical School.

Doctor of Philosophy

The degree, Doctor of Philosophy, is not conferred solely as the result of faithful study extending over any prescribed period; special attainments are required in all candidacy for this degree, particularly the power of independent investigation as shown by the production of a thesis embodying original research or creative scholarship, presented with a fair degree of literary skill. Candidacy for the degree is based upon resident graduate study normally extending over a period of not less than three academic years, at least one of which must be spent at this University.

The attention of graduate students is called to the following regulations respecting candidacy for the doctor's degree and they will be presumed cognizant of them:

1. **Major Study.** Candidates for this degree are required to select a major study which may be coextensive with the work of a department or with one of the "subjects" under which certain departmental announcements of courses are classified, or which

may be constructed from two closely related subjects. Only in exceptional cases and with the prior approval of the Dean of the Graduate School will a major be allowed to extend beyond a single department. The courses composing the major may be divided among several instructors, one of whom, designated as In Charge of the Major Study, will act as the student's adviser in the selection and arrangement of courses constituting the major and also the minor studies defined below. The major professor will have immediate supervision of the thesis unless the Graduate Committee, upon recommendation of the department, shall otherwise direct.

2. **Minor Studies.** Supplementary to his minor work, the candidate is usually required to pursue one and may pursue two minor studies, which shall aggregate from one-fourth to one-third of the time spent upon his graduate studies and which shall lie outside his major subject. Such minors and the amount of work to be devoted to them shall be stated to the Graduate Committee for its approval at the time of admission to candidacy for the degree. See Sec. 3.

3. **Admission to Candidacy, or Preliminary Examination.** Preferably nine months and at least seven months prior to the oral examination provided in Sec. 4, the candidate shall file with the Dean of the Graduate School his formal application to be admitted to candidacy for the doctor's degree. A suitable blank will be furnished for this purpose by the Graduate Office. This application shall include the following statements:

(a) The title of his proposed thesis (subject to future verbal amendment) and the major professor's approval of such title.

(b) Certificates from the Departments of French and German of the University of Wisconsin that the candidate possesses a reading knowledge of these languages adequate for use in research in his major subject.

(c) Departmental recommendation of candidacy based upon (1) formal written examination, (2) oral examination before a duly appointed committee, (3) such other substantial tests as the departments may elect. The nature of such test shall be stated in the recommendation.

(d) The scope of the proposed minors, as provided in Sec. 2, and the approval of a professor who assumes charge of each such minor.

This application shall be submitted to the Graduate Committee, which may reject it for cause, or may approve it and

admit to candidacy. With reference to time requirements imposed by the University, the Graduate Committee may specify the earliest permissible date for the final oral examination provided in Sec. 4.

4. **Oral Examination.** Every candidate for the doctor's degree is subject to oral examination upon the general field of his major and minor studies, but such examination upon a second minor subject may be waived upon recommendation of the instructor in charge, accompanied by a certificate that the candidate has passed a special written examination adequately covering the field of such subject. The Dean of the Graduate School will appoint for each candidate an examining committee, usually composed of five persons, with the major professor as chairman, and will designate a time and place for the examination. The candidate's completed thesis shall be presented to this committee, or, in lieu thereof, the major professor shall state to the committee its purpose and scope and shall certify to the committee that the work upon the thesis is substantially completed. This examination shall be open to all members of the Graduate Faculty.

5. **Thesis.** At any time after admission to candidacy, the candidate may submit to the Dean of the Graduate School, for approval of its mechanical form and execution, a typewritten copy of his completed thesis, provided with a title page in form prescribed by the University and furnished by it, in blank, upon request. At any time thereafter, upon request of the major professor, the Dean shall constitute a committee of three persons, including the major professor, who shall report upon the substantial merit of the thesis. Their report, if favorable, shall be endorsed upon the thesis for publication. When so endorsed, the thesis shall be filed in the University Library and shall be withdrawn therefrom only upon written authorization of the Dean of the Graduate School. In case of divided opinion among the examiners, the case shall be decided by the Graduate Committee with right of appeal to the Faculty.

6. **Abstract.** At any time after approval of the thesis, the candidate may file with the Dean of the Graduate School either an abstract of the thesis, or a selected part thereof, certified by the major professor to be adequate for publication in lieu of the complete thesis.

7. **Security for Publication.** After filing such abstract or selected part, the candidate shall place with the University Bursar

the sum of fifty dollars as a guaranty of prompt publication of his thesis. The sum so placed shall be held in trust by the Bursar for a period of not less than one year and shall be refunded to the candidate if during such period he shall deliver to the University Librarian the printed copies of his thesis prescribed in Sec. 8. At the expiration of the period thus prescribed the Dean of the Graduate School may declare such fifty dollars to be forfeited to the fund for the publication of thesis abstracts and it shall be transferred to that fund by the Bursar.

8. The successful candidate is urged to put his thesis into print as promptly as possible and to deposit one hundred copies of the same in the University Library. In the case of doctor's theses published in (1) such scholarly periodicals or society or university publications as shall be approved by the Dean of the Graduate School, or (2) in bound volumes issued and sold by well-known publishing houses approved by the Dean, the candidate may deposit in the University Library six copies of the thesis so published in lieu of the one hundred copies above prescribed. By approval of the major professor and the Dean of the Graduate School, publication and filing of an approved part of the thesis may be accepted in satisfaction of this requirement.

9. Recommendation to the Graduate Faculty that the doctor's degree be conferred upon the candidate will be made (a) upon absolving the requirements above set forth under Secs. 3, 4, 5, and 8, or (b) upon absolving the requirements of Secs. 3, 4, 5, 6, and making the deposit named under Sec. 7.

10. Candidates who are engaged in teaching or other remunerated employment will be required to devote to their candidacy such period in excess of the minimum requirement of three years as may be designated by the Graduate Committee.

Fees and Expenses

See pp. 80ff.

Graduate Circular

The special announcement of the Graduate School, giving detailed information concerning the School, may be obtained upon application to the Graduate Office, 157 Bascom Hall. Special bulletins of the Divisions of Biology, Chemistry, Education, Language and Literature, and the Social Sciences may also be obtained from the Graduate Office.

UNIVERSITY EXTENSION DIVISION

(Extra-mural College)

LOUIS E. REBER, DEAN

Of the three main functions of a commonwealth university—(1) resident instruction, (2) research, and (3) the dissemination of the useful and assimilable knowledge which has been accumulated through productive scholarship, to all classes of citizens and in forms adapted to their requirements—the third is fulfilled in an organized way by the Extension Division.

This Division constitutes the Extra-mural College of the University, and is, therefore, one of the seven coordinate colleges of the University with a dean and a faculty of its own.

Object

The object of this University in carrying on extension work is to provide the highest type of education feasible for the citizens of the commonwealth who are unable to attend established educational institutions, and to give every one in the state the opportunity to obtain the highest education possible at the smallest practical expense—to bring the University and the home into close relationship.

Organization

The work of the Extension Division is divided into three departments as follows:

I. Correspondence-Study.
II. Debating and Public Discussion.
III. Group and Community Service.

Field Organization

For convenience and efficiency in administration, the state is divided into districts. In a central point of each is established an office or district headquarters, over which a district representa-

tive presides. Associated with him are district and traveling instructors, who give personal assistance and instruction to students who have need of such help, or conduct class groups for those pursuing correspondence-study work where that may be desirable.

Field organizers make known and interpret the instruction and other opportunities which are made available through the Extension Division and organize the details of the work in the field.

District Organizations

First District Office.....Milwaukee
Second District Office.....Oshkosh
Fourth District Office.....Superior
Fifth District Office.....Wausau
Sixth District Office.....Eau Claire

CORRESPONDENCE-STUDY DEPARTMENT

WILLIAM H. LIGHTY, SECRETARY AND PROFESSOR

Purpose

For the needs of those who are unable to adjust themselves to the formal system of education, special forms of consecutive home study courses have been developed by the Correspondence-Study Department. This department offers individual instruction adapted to the special needs of students who cannot come into residence study at the University. The instruction given may be undertaken in the leisure hours of each student at his own home.

Plan and Scope

The University of Wisconsin provides, through the Correspondence-Study Department, non-resident or home-study instruction as follows:

1. Certain regular university studies which may, under approved conditions, be taken for credit toward a degree.

2. Advanced courses designed to help persons—graduates and others—in professional or practical life to keep in touch with the advancement in science and other fields of knowledge.

3. High school and preparatory studies for those for whom the conventional institutions are not available or practicable.

4. Elementary and grammar school studies for those who require such instruction for practical purposes.

5. Vocational courses prepared with reference to the needs and requirements of given occupations.

6. Guided study outlines for program material to aid various organizations in their club work.

General Benefits

Persons who are benefited by correspondence-study may be divided into two main classes: (1) those who have the taste, ability, and inclination to continue their education whether general or vocational; (2) wage-earners who cannot leave their employment in order to acquire training directed towards greater proficiency and skill.

The first class may be roughly divided into (1) those who wish to keep abreast of the advances in knowledge in their profession or business, or who wish to study purely for purposes of general culture; (2) those who wish to acquire units of credit toward a university degree; and (3) those who require preparation for entrance to the University.

The second class includes (1) those whom the necessity of earning a livelihood has taken from school before acquiring an elementary education; (2) those who have had the benefit of more or less liberal educational opportunities, but have received no training especially adapted to fit them for their chosen vocations; and (3) those who desire to change vocations and prepare themselves for employment more nearly adapted to their tastes and abilities.

This system of instruction is designed for persons carrying on their own education. It is open to non-residents as well as to residents of the state of Wisconsin.

Method

PROCEDURE. The student who wishes to undertake correspondence-study should first select such course or courses as he may desire to take and send for an application blank. He should fill out the blank with information called for, and return it, with the required fee, to the office of the Extension Division. The neces-

sary textbooks, outfit, etc. may also be purchased through the Extension Division if the student so desires. Students are encouraged to register for but one course at a time. No more than two courses may be registered for at one time unless the student can give evidence that he has several hours a day to devote to study.

THE INSTRUCTION. Upon receipt of the application and fee, the first two lessons will be sent with instructions for study, methods of preparation, and directions for returning lesson sheets and reports. Each lesson will be returned to the student with such corrections, explanations, and suggestions as may be needed. Lists of books, assignments for reading, and all necessary assistance will be furnished throughout the course, so that no student will be left without adequate aid and guidance. Questions on the subject in hand are at all times encouraged.

BY WHOM PREPARED. These courses are prepared by the members of the University Faculty, and each represents a definite amount of work equivalent to similar work done in residence at the University, or in standardized schools.

THE UNIT COURSE. The unit course is divided, where practicable, into forty weekly assignments. Such a course represents at least an amount of work equal to that done in residence at the University in a full five recitation-hour study a week for one semester, or half year. It is assumed that this work may be done by the average student in forty weeks on a minimum leisure for study of one hour a day, six days in the week. It is, however, the student's privilege to pursue his studies as rapidly as he is able.

THE LESSON. The unit course is divided into assignments. In some courses this may call for but a single report but in others the assignment is divided into two or more lessons. In all cases the assignment represents an average week's work, and not an evening's work as at school.

PERMANENCE. The department endeavors to make its work thorough and permanent and the various courses have been arranged in coordination with the regular residence work, the short courses, and the summer session.

EXAMINATIONS. Examinations are optional with the student, but are required where credits or certificates are sought. These examinations must be taken at the University, or under conditions approved by the University.

REGULATIONS. 1. Students may begin correspondence courses at any time during the year.

2. For admission to the Correspondence-Study Department no preliminary examination is required. The student is required to fill out an application blank, giving such information as may be helpful in adapting the instruction to the personal needs of each student.

3. Students who undertake correspondence-study work for university credit must state this fact in advance and comply with all the requirements of the University.

4. For the benefit of the department it is desired that the applicant state fully the purpose he has in view in taking the work, and also in detail such educational advantages, training, or experience as he may have had. The department endeavors to meet the needs of the individual student by advice and suggestion, as well as by formal instruction, but whenever it finds that the course elected is not for the best interests of the student, it reserves the right to reject the application, or to advise a change to another course.

5. Correspondence students enrolled in a course (or courses) comprising twenty assignments or less, not involving credit toward a university degree, are allowed twelve months from the date of registration to complete the work. For longer courses a proportionately longer time is allowed. Correspondence students who are candidates for credit toward a degree are expected to complete one course of forty assignments or less within twelve months, two courses within fifteen months, three courses within eighteen months, from the date of registration.

6. No fee is refunded because of a student's inability to enter upon or pursue a course for which he has once registered. If an application for instruction is rejected, the fee is returned.

7. The fee for a full unit course of forty assignments is only twenty-five dollars, or, in terms of University credit, is at the rate of five dollars a credit. No registration fee is charged for Wisconsin students, but a registration fee of two dollars is required from those enrolling from without Wisconsin. These fees are deliberately put upon the lowest operating basis.

Laboratory Work

Provision is made in connection with many correspondence courses, both in the advanced grade and in the vocational studies, by which laboratory practice forms a part of the instruction. In some courses laboratory outfits are sent to the student from the

University to be set up in his own home. In other cases special arrangements are made for short periods of laboratory practice at Madison. In some studies local branch laboratories are established where local students may receive special instruction as the correspondence course proceeds.

University Credit

1. Persons who have had the required preparation for admission to the University will, upon satisfactory completion of a correspondence-study course designed for credit, be awarded a certificate of credit in the University.

2. The maximum credit granted for work done by correspondence-study, however, may not exceed one-half the unit hours required for graduation.

3. At the completion of each correspondence-study course for university credit, the student shall pass an examination held under the direction of the instructor giving such course, or by some one designated by the University for that purpose.

4. Work taken for credit may not be done by any student while in attendance at any institution of learning.

5. In special cases credit may be allowed for correspondence-study courses of preparatory grade to satisfy partial entrance requirements to the University.

6. Credit to an amount not exceeding one-fourth of the unit hours required for graduation may be given at the University of Wisconsin to students of such other correspondence schools or departments as may be designated by the University of Wisconsin. It is, however, required that such credits shall be subject to the same provisions as are made in the University of Wisconsin, and subject to the action of the accredited schools committee, or the advanced standing committee, as the case may require.

7. Credit records of correspondence-study work are filed in the University Extension office until the student has satisfactorily completed one year of study in residence. When all the requirements are satisfied, the correspondence-study records may be transferred to the Registrar's office and applied toward graduation.

8. All courses offered by the Correspondence-Study Department, whether taken for University credit or not, are on a uniform basis in reference to the amount of work covered. Courses which are satisfactorily completed have, therefore, a definite value,

and all students who successfully complete such courses will be awarded certificates of the grade in which the work is taken.

Correspondence-Study Courses

Courses marked with an asterisk (*) involve university credit. Full information on any of the correspondence-study courses is supplied on request.

Astronomy—Popular Astronomy (C. 1).

Botany—Description and Classification of Flowering Plants * (C. 1); General Botany * (C. 11); Morphology of Seed Plants * (C. 12); General Morphology of Algae * (C. 2); General Morphology of Fungi * (C. 3); Plant Histology * (C. 5); Morphology of Mosses and Ferns * (C. 4); Drug and Food Products * (C. 7); Trees and Shrubs * (C. 8); Elementary Botany (C. 21).

Business—Complete Course, Business Organization and Management (C. 142-155); General Organization of Business (C. 142-144); Types of Business Organizations (C. 145-150); Industrial Management (C. 151-152); Marketing Methods (C. 153-155); Bookkeeping (C. 128); Accounting Principles (C. 129); Cost Accounting for Industrials (C. 136); Bookkeeping and Cost Finding for Printers (C. 130A); Municipal Accounting (C. 134); Advanced Accounting Problems (C. 135); Federal Income Tax (C. 132); State Income Tax (C. 132B); Auditing (C. 137); Contracts (C. 115); Sales (C. 118); Commercial Paper (C. 122); Private Corporations (C. 124); Insurance (C. 198); Show-Card Writing (C. 5); Retail Selling and Store Management (C. 159); Retail Selling (C. 159A); Retail Advertising (C. 191A); Commercial Correspondence (C. 102); Real Estate (C. 174); Investments (C. 169).

Chemistry—Elementary Chemistry * (C. 1); Qualitative Analysis * (C. 2).

Drawing, Mechanical—Shop Sketching (C. 203); Shop Drawing (C. 204A); Shop Drawing (C. 204B); Mechanical Drawing (C. 204S); Principles of Architectural Drawing (C. 243A); Advanced Architectural Drafting (C. 243B); Sheet Metal Drafting (C. 205A); Advanced Sheet Metal Drafting (C. 205B); Sheet Metal Layout (C. 205C); Elements of Drawing* (C. 1); Elements of Drawing * (C. 2); Descriptive Geometry * (C. 3); Freehand Lettering (C. 4); Show-Card Writing (C. 5).

Economics—Principles of Economics* (C. 1); Labor Problems* (C. 2); Transportation* (C. 3); Socialism* (C. 4); Economics of Saving and Investment (C. 5); Elements of Money and Banking* (C. 10); Brief Course in Money and Banking (C. 10A); Current Economic Problems* (C. 11); Social Psychology* (C. 15); General Sociology* (C. 16); Practical Sociology* (C. 17); Criminology and Penology* (C. 18); Immigration and Americanization* (C. 30).

Education—Mental Development* (C. 1); Educational Psychology* (C. 3); Child Nature and Training (C. 5); History of Modern Education* (C. 6); Principles of Elementary Teaching (C. 7);

Principles of Secondary Education* (C. 31); Social Development and Education* (C. 51); Advanced Educational Psychology* (C. 61); History of American Education* (C. 71); The Reorganized High School* (C. 86); Supervision of Instruction* (C. 81); Educational Statistics and Graphics* (C. 63); Educational Tests and Measurements* (C. 65).

Engineering, Civil and Structural—Civil and Structural Engineering Drawing (C. 404); Elements of Structural Theory (C. 450-454 inc.); Use of Structural Steel Handbook (C. 455); Roof Trusses (C. 410); Plate Girders (C. 411); Bridge Stresses—Uniform Loads (C. 412A); Bridge Stresses—Concentrated Loads (C. 412B); Design of Railway Bridge Trusses (C. 413); Reinforced Concrete Construction (C. 418A); Reinforced Concrete Construction (C. 418B); Reinforced Concrete Construction (C. 418C); Steel Building Construction (C. 421); Elements of Structures (C. 408); Elements of Structures (C. 409); Practical Course in Concrete (C. 430); Introductory to Structural Steel Drafting (C. 431A and B); Elementary Steel Design (C. 431C); Steel Designing and Detailing (C. 431D); Concrete Construction Superintendence—Part A (C. 474); Concrete Construction Superintendence—Part B (C. 475); Plane Surveying (C. 441); Practical Hydraulics (C. 481); Railway Curves (C. 445); Roads and Pavements (C. 501); Rural Highway Work (C. 502); Railway Curves (C. 1); Stresses in Simple Structures (C. 2); Design of Roof Trusses and Plate Girders (C. 3); Design of Railway Bridge Trusses (C. 4); Principles of Reinforced Concrete (C. 105); Concrete Arches (C. 106); Principles of Reinforced Concrete (C. 111).

Engineering, Electrical—Mathematics (C. 301, Parts I and II); Elementary Magnetism and Electricity (C. 310); Advanced Electricity and Magnetism (C. 310S); Theory and Operation of Direct-Current Machinery (C. 311); Principles of Direct-Current Machines (Advanced) (C. 311S); Theory of Alternating Currents (C. 312); Alternating-Current Machinery (C. 313); Electric Lamps and Illumination (C. 314); Central Electric Stations (C. 316); Electric Power Transmission (C. 317); Telephony (C. 318, Parts A, B, and C); Commercial Electrical Measuring Instruments (C. 319); Watthour Meters (C. 319A); Electric Railways (C. 321); Storage Batteries (C. 322); Electric Central Station Distribution Systems (C. 323); Electric Wiring (C. 324); Essentials of Electricity (C. 327); Principles of Radiotelegraphy (C. 329); Electrical Engineering Mathematics (C. 330); Electric Welding (C. 335).

Engineering, Mechanical—Shop Arithmetic (C. 201A); Advanced Shop Mathematics (C. 201B); Mechanical Drawing; Sheet Metal Drafting; Statics; Dynamics; Elements of Mechanics (C. 206); Strength of Materials (C. 207); Mechanism (C. 208); Elements of Machine Design (C. 209A); Elements of Machine Design (C. 209B); Advanced Machine Design (C. 210); Practical Hand Firing (C. 213); Principles of Steam Engineering (C. 214); Heat (C. 215); Boilers (C. 216); Steam Engines (C. 217); Gas and Oil Engines (C. 219A); Gas Producers (C. 219B); Gas Engine Theory and Design (C. 219C); The Gasoline Automobile (C. 219D); Automotive Ignition Systems (C. 219G); Refrigeration (C. 222); Com-

pression System of Refrigeration (C. 222A); Heating and Ventilating (C. 223); Compressed Air (C. 225); Fuels (C. 231); Heating and Ventilating Public Buildings (C. 234); Principles and Practice of Plumbing (C. 235); Lumber and Its Uses (C. 242); Kiln Drying of Lumber (C. 242A); Principles of Architectural Drawing (C. 243A); Advanced Architectural Drafting (C. 243B); Cupola Practice (C. 272); Foundry Metallurgy (C. 274); Hydraulics (C. 281).

English—Elementary English (C. 1); English Grammar (C. 61); Practical English Review (C. 64); Intermediate English Composition (C. 2, Parts A and B); High School English Classics (C. 3); English Composition* (C. 5); English Composition* (C. 6); Composition of Technical Papers* (C. 8); Advanced Composition* (C. 7); The Short Story* (C. 16); General Survey of English Literature* (C. 51); General Survey of English Literature* (C. 52); General Survey of American Poetry* (C. 31); Shakespeare* (C. 17A); Shakespeare* (C. 17B); The Poetry of Tennyson* (C. 18); The Poetry of Browning* (C. 19); The English Novel in the Nineteenth Century* (C. 25); The Teaching of Composition* (C. 4A); The Teaching of Reading and Literature* (C. 4B); The Teaching of English to Foreigners* (C. 9); Modern Drama* (C. 35A); Modern Drama* (C. 35B); Ancient Classical Drama in English* (Greek C. 113B); Review of English Grammar and Composition (C. 63); Review of American Literature (C. 81); Review of English Literature (C. 91).

French—Elementary French* (C. 1); Elementary French* (C. 2); Intermediate French* (C. 3); Intermediate French* (C. 3A); Intermediate French* (C. 4); Technical French* (C. 5); Grammar Review and Elementary French Composition* (C. 6); Advanced French Composition* (C. 7); Modern French Dramatists* (C. 8); Modern French Novelists* (C. 9); General Survey of French Literature* (C. 10); French Literature of the Nineteenth Century* (C. 25).

Geology and Geography—Mineralogy* (C. 1); Economic Geology* (C. 2); Physical Geography* (C. 3); Elementary Geology* (C. 4); Geography of South America* (C. 11); Geography of Europe* (C. 16).

German—Elementary German. A* (C. 1); Elementary German. B* (C. 2); Intermediate German. A* (C. 3); Intermediate German B* (C. 4); Scientific German* (C. 6); Commercial German* (C. 7); Critical German Prose* (C. 8); German Grammar Review and Composition* (C. 12); Elementary Teachers' Course (C. 19); Advanced Teachers' Course* (C. 20); Modern German Dramatists* (C. 25); Modern German Novelists* (C. 26); Schiller* (C. 22); Goethe* (C. 21); Goethe's Faust* (C. 29); History of German Literature* (C. 30, Parts A and B); History of German Language* (C. 31).

Greek—Elementary Greek* (C. 1); Xenophon's Anabasis* (C. 2); Homer's Iliad* (C. 3); Greek Composition* (C. 6A); Greek Composition* (C. 6B); Ancient Classical Drama in English* (C. 113B).

Health—Study of the Human Body (C. 6); The Prospective Mother (C. 7); The Child in Health (C. 8); The Child in Dis-

ease (C. 9); Local Health Officer's Work (C. 20); Public Health Nursing (C. 24).

Hebrew—Elementary Hebrew (C. 1); Elementary Hebrew (C. 2).

History—United States History (C. 1); American History 1760-1830* (C. 2); English History* (C. 6A); English History* (C. 6B); Modern European History* (Part I (C. 8A); Modern European History* Part II (C. 8B); Medieval History* (C. 12A); Medieval History* (C. 12B); Oriental and Greek History* (C. 20); Roman History* (C. 21); United States History Review (C. 67); English History Review (C. 89).

Home Economics—Food Study for the Housekeeper (C. 1); Planning the Family Dietary (C. 2); Dietetics (C. 3); The House and Its Equipment (C. 4); Spending the Income (C. 5); Prevention of Disease and Home Care of the Sick (C. 6); The Prospective Mother (C. 7); The Child in Health (C. 8); The Child in Disease (C. 9); Study of Fabrics (C. 11); Dressmaking and Designing (C. 13); Dressmaking (C. 13A); Infants' Clothes (C. 14); House Furnishing and Decoration (C. 15); Feeding Children for Health and Growth (C. 16); The House and Its Management* (C. 19); Food and Nutrition* (C. 20); Applied Design* (C. 21); Cotton Garments* (C. 22); Cooking for Rural Schools (C. 25); Sewing (C. 26); Cooking and Sewing (C. 27A); Cooking and Sewing (C. 27B).

Italian—Elementary Italian* (C. 1); Elementary Italian* (C. 2).

Latin—Elementary Latin* (C. 1); Caesar* (C. 2); Cicero* (C. 3); Vergil's Aeneid* (C. 4); Elementary Composition* (C. 5); Advanced Composition* (C. 6A); Advanced Composition* (C. 6B); Livy* (C. 7); Cicero: De Senectute* (C. 10); Terence: Andria and Phormio* (C. 12); Horace: Odes* (C. 14); Horace: Epistles and Satires* (C. 15); Catullus* (C. 16); Cicero: Letters* (C. 20); Ancient Classical Drama in English* (Greek, C. 113B).

Library Methods—Library Methods for Teacher Librarians (C. 1).

Manual Arts—History and Literature of Manual Arts* (C. 1); Teaching and Supervision of Manual Arts* (C. 2, Parts A and B); Organization of Manual and Industrial Arts* (C. 3); Vocational Education and Vocational Guidance* (C. 4).

Mathematics—Elementary Algebra (C. 1, Parts A and B); Plane Geometry (C. 3); Solid Geometry* (C. 4); Advanced High School Algebra (C. 40); Plane Trigonometry* (C. 5); University Algebra* (C. 6); Analytic Geometry* (C. 7); Elementary Calculus* (C. 8); Agricultural Mathematics* (C. 51); Commercial Arithmetic (C. 55); Commercial Algebra* (C. 56); Mathematics of Life Insurance* (C. 57, Parts A, B, and C); Advanced Calculus* (C. 65); Differential Equations* (C. 66); Theoretical Mechanics* (C. 67); Higher Algebra* (C. 68); Algebra for Engineers (C. 40); Elementary Analysis* (C. 41); Elementary Analysis* (C. 42); Elementary Analysis* (C. 43); Differential Calculus* (C. 44); Calculus* (C. 45); Calculus* (C. 46); Practical Arithmetic (C. 11); Mensuration and Practical Geometry (C. 12); Practical Algebra (C. 13); Practical Trigonometry (C. 14); Practical Calculus (C. 15); Shop Mathematics; Elementary Algebra (C. 62).

Mechanics—Statics* (C. 1); Dynamics* (C. 2).

Meteorology—Elementary Meteorology* (C. 1); Climatology* (C. 2).

Music—Theory of Music (C. 1c); Public School Music* (C. 31c); History of Music* (C. 75c); Elementary Harmony* (C. 5c); Advanced Harmony* (C. 61c); Community Music and Drama* (C. 97c); Appreciation of Music* (C. 71c).

Pharmacy—Pharmacy* (C. 1, Parts A and B); Elementary Prescription Practice* (C. 20A); Prescription Practice, Liquid Preparations* (C. 20B); Solid Preparations* (C. 20C); Advanced* (C. 21A); Advanced* (C. 21B); Advanced* (C. 21C); Prescription Incompatibility* (C. 21D); Pharmaceutical Technology, Liquid Preparations* (C. 22A); Solid Preparations* (C. 22B); Alkaloidal Assay* (C. 23A); General Chemistry, Part A* (C. 3); Inorganic Preparations* (C. 5); Qualitative Analysis* (C. 12); Morphology and Classification of Flowering Plants* (C. 10); Plant Histology* (C. 15); Drug Assaying* (C. 30); Physiological Chemistry* (C. 35); Pharmaceutical Chemical Analysis* (C. 40); Microscopical Examination of Food Products* (C. 45); Microscopical Examination of Drugs* (C. 46); Pharmacology* (C. 50); Toxicology* (C. 51).

Philosophy—General Psychology* (C. 1); Ethics* (C. 10); Business Ethics* (C. 12).

Physics—Elementary Physics (C. 1); Physics Review (C. 87); Physics, University* (C. 5); Physics, University* (C. 6); Physics, Engineering* (C. 51E); Physics, Engineering* (C. 52E).

Political Science—American Government and Politics* (C. 1); The American Judiciary* (C. 1A); The American Executive and Executive Methods* (C. 1B); Party Organization and Management* (C. 3); American Legislatures and Legislative Methods* (C. 3A); American Diplomacy* (C. 4A); American Constitutional Law* (C. 5A); International Law of Peace* (C. 5B); International Law of War* (C. 5C); Municipal Government in Europe and the United States* (C. 10); American Municipal and Civic Progress* (C. 6); Voting Methods and Elections (C. 15).

Public Speaking—Elementary Speech Writing (C. 1); Composition of Public Addresses* (C. 10); Argumentation* (C. 12).

Railway Engineering—Railway Curves (C. 1).

Roads and Pavements—Roads and Pavements (C. 501); Rural Highway Work (C. 502).

Spanish—Elementary Spanish* (C. 1); Elementary Spanish* (C. 2); Intermediate Spanish. A* (C. 3); Intermediate Spanish. B* (C. 4); Don Quijote* Part I (C. 7); Don Quijote* Part II (C. 8).

Surveying—Plain and Topographical Surveying (C. 441).

Teachers' Review Courses—Grammar and Elementary Composition (C. 63); Geography (C. 65); United States History (C. 67); Civil Government (C. 69); American Literature (C. 81); Elementary Algebra (C. 62); Physics (C. 87); English Literature (C. 91); English History (C. 89).

DEPARTMENT OF DEBATING AND PUBLIC DISCUSSION

ALMERE L. SCOTT, SECRETARY.

Purpose

For the assistance and instruction of citizens who are interested in important social, educational, and political problems, the Department of Debating and Public Discussion fosters forum activities for deliberative study and discussion.

Inasmuch as the intelligent and active interest in and study of these questions among all classes of people tend essentially to the making of good citizens, the department issues suggestive and guiding bulletins, collects and maintains a loan library available through parcel post, and keeps in close touch through correspondence and personal interviews with community centers, civic clubs, farmers' clubs, women's and business men's organizations, parent-teacher associations, school and library boards, and literary societies of educational institutions.

Bulletins

Several compact and useful guides have been issued as aids to debaters, including Debating Societies—Organization and Procedure; Principles of Effective Debating; How to Judge a Debate; Triangular Debating Leagues; and School Literary Societies. As special aids to organizations, bulletins on Farmers' Clubs, Civic Clubs, and Parent-Teacher Associations have been published. The Triangular Discussion League bulletin suggests a plan to encourage the study and the intelligent discussion of great current problems not suited to a two-sided contest, but rather suited to a general discussion which brings out the many sides and salient facts.

FORMULATED QUESTIONS. The bulletins which formulate subjects for debate, giving brief historical facts and arguments, concluding with a selected, classified bibliography, serve as an impetus to careful study and have proved helpful and time-saving. Such questions as the following have been thus presented: Annexation of Cuba and Independence of the Philippines; Closed vs. Open Shop; Commission Plan of City Government; Initiative and Referendum; Municipal Home Rule; and The Recall. These publications are sent free upon request to Wisconsin citizens, and upon receipt of list price, outside of the state.

Loan of Material

The loan package libraries include selected newspaper and periodical clippings, office bound sections of periodicals, government documents, publications of organizations, copies of addresses, reprints, typewritten excerpts, books—in fact all forms of carefully selected available material dealing in a fair and balanced manner with the different phases of worth while subjects. This service is restricted to residents of Wisconsin. In order that material may be selected judiciously, it is essential that the request for a package library state definitely the purpose for which the information is desired, and the latest date upon which it would prove of value. The same material cannot be used to the best advantage by a rural school pupil and a member of a woman's club.

The department aims to cooperate in every possible way with local librarians. Requests from communities which have public libraries should state what is available locally, thus avoiding unnecessary duplication and expense.

DEPARTMENT OF GROUP AND COMMUNITY SERVICE

Purpose

The Department of Group and Community Service is composed of bureaus which deal with the informal or non-consecutive type of service as distinguished from the more formal and systematic types of instruction. These bureaus are concerned with questions and problems of general interest and public welfare and are grouped under one secretary with the cooperation of appropriate faculty committees and bureau heads.

The department serves as a clearing house through which all reasonable inquiries of the people of the state on general matters may receive consideration.

Method

The department seeks to serve the individual inquirer, the group, and the community, in establishing contact with specific lines of information, through the accumulation of data and a digestion of such data for presentation in non-technical form, from such widely diverse sources as the reports of government bureaus, commissions, and experimental stations; the proceedings

of scientific societies; publications of an economic, a social, a political, and an ethical character.

To meet the need for constructive, sustained, and technical assistance in the several fields of welfare work, the following bureaus, each in charge of an expert, are available: Bureau of Instruction by Lectures, Bureau of Municipal Information, Bureau of Visual Instruction, Bureau of Community Development, and Bureau of Commercial and Industrial Relations.

Publications

The Department of Group and Community Service issues from time to time bulletins on subjects of timely interest. These are free to residents of the state of Wisconsin.

Exhibits

In addition to the specific lines of activity included within the fields of the various bureaus, the Department of Group and Community Service has found the use of traveling exhibits and demonstrations upon such subjects as child welfare, health, recreation, and community center work of very great value. The department expects to continue this form of service, suiting the type of exhibit and demonstration to the new needs of the after-war period.

Social Service Institutes

Before the war, the Extension Division had already demonstrated the success of the Social Service Institute which aimed to provide opportunity for the intensive study of local problems of social service. The greatly increased interest in all such problems, as a result of the war, makes it desirable for the Department of Group and Community Service to do even more extensive work in this field. Through the Social Service Institute the communities of Wisconsin may utilize the expert service of the University for the study of special questions and for the crystallization of public opinion in favor of the correct solution of these questions.

BUREAU OF INSTRUCTION BY LECTURES

Purpose

For instruction and platform inspiration in communities where the lyceum need exists the Bureau of Instruction by Lectures organizes and supplies local programs.

Scope of Service

The University offers through this department: (1) single lectures or series of such lectures; (2) lecture, concert, recital, or reading programs or a miscellaneous combination of these. Such programs are offered with the definite purpose of developing better taste and higher standards with reference to public entertainments, and an appreciation of art, music, and literature by presenting examples.

LECTURES. The field covered by the lecture courses is a wide one, including topics in education, history, geography and travel, political economy, political science, sociology, business administration, the history and literature of ancient and modern peoples, including Greek and Roman, Scandinavian, German, Semitics, French, and English life and letters, the physical sciences, engineering branches, forestry and physical training. The bulletins containing details of information will be sent on request.

TEACHERS' CONVENTIONS AND INSTITUTES. The Extension Division will provide speakers for these meetings as far as the regular work of the University will permit.

COMMENCEMENT ADDRESSES. This department arranges for commencement addresses to be delivered by members of the university staff and others available in this service. The charges will be arranged in each case for the speaker desired through the Extension Division.

SPECIAL OCCASION LECTURES. This department furnishes speakers for special occasions, such as memorial and dedication exercises, convocation addresses in schools, commercial organizations, and civic and women's clubs.

Expenses

LOCAL EXPENSES. These include hall rent and advertising in the local papers, and the lantern and operator, where the lecture is illustrated.

UNIVERSITY CHARGES—LECTURERS' FEES. Full information concerning lecturers' fees will be supplied on application.

BUREAU OF MUNICIPAL INFORMATION

To meet the need for information in the important field of municipal government, information which is difficult to obtain and hard to keep up to date, a Bureau of Municipal Information is maintained for the service of the cities of the state. It collects and furnishes technical information on all subjects of municipal organization and administration, public works, public utilities and public service rates, commission and city manager government, home rule, civic organizations, and gives also information on municipal employment, paving, parks and playgrounds, housing, dust prevention, smoke abatement, city planning, civic centers, art commissions, care of city trees, schools, accounting methods, comparative statistics, and other subjects of municipal interest. The bureau collects and maintains a file of charters, ordinances, and official publications of the principal cities of the United States. It has correspondents in most of the American cities, and in this way is able to furnish information as to which cities have passed an ordinance of any type, for instance, a milk ordinance, or a wheel tax ordinance; to present data as to the efficiency of different types of ordinances; and, if desired, to lend copies of particular enactments. It can tell how boards of public works are organized in various cities, how school boards are constituted, or how street sprinkling or street repairs are paid for. In short, it aims to be a clearing house for municipal experiments and experiences.

BUREAU OF VISUAL INSTRUCTION

For several years the Extension Division has lent educational lantern slides, motion picture films, charts, exhibits, and other illustrative material to schools and other institutions and organizations. This service is organized into the Bureau of Visual Instruction, which is making a thorough and systematic study of materials that may be used in illustrative teaching, or in instruction through the medium of the eye, and placing such materials within easy and constant reach of all schools and other civic organizations of the state. The bureau has a carefully selected collection of approximately 4,000 reels of film and 125,000 slides to be lent to schools for use in class work and for community gatherings. During the year 1920-21 circuits were established on which the material was routed to approximately 700 schools and organizations which applied for service.

BUREAU OF COMMUNITY DEVELOPMENT

The Bureau of Community Development is designed to give instruction and guidance on community problems and advancement. It does this by correspondence, demonstration, conference of experts, speakers and the promotion of community enterprises, such as community music and drama, pageants, festivals, and celebrations.

The use of public buildings for such activities, especially a wider use of the school plant, is encouraged. While the community center movement is already well established in Wisconsin, the peculiar need at this time for a greatly increased development along this line is necessary because of the social and economic changes through which the country is passing.

Another movement which the Bureau is fostering because of its great community value is the Parent-Teacher Association. In some respects, it is the most effective means for the development of neighborhood life. The real approach to the problem of Americanization is through a better socialized community spirit.

The Bureau of Community Development is prepared to make suggestions and assist in the formu'ation of programs ca'culated to unify community life.

BUREAU OF COMMERCIAL AND INDUSTRIAL RELATIONS

The rapidly increasing interest in the question of industrial relations has necessitated the establishment of a Bureau of Commercial and Industrial Relations. This bureau is designed to find and collect information on the problems of commercial and industrial relations; to supply unbiased information on these problems; and to stimulate interest in the solution of all questions of mutual interest to employer and employe.

Three types of service are offered:

(1) A library and museum of forms and practices in labor management accessible by specific inquiry to employers and employes within the state;

(2) A bulletin service taking up in practical fashion industrial relations topics of universal and urgent interest; and

(3) A consultation and engineering service to industry within the state.

There are no charges for these services to residents of the state except for industrial engineering service for which operating fees contingent upon the circumstances of each case are required.

POSTGRADUATE MEDICAL INSTRUCTION

The purpose of the courses offered in postgraduate medical instruction is to supply to physicians, practicing in a given locality, practical demonstrations of the newer methods of diagnosing and treating disease. Clinics are held at a hospital conveniently located, illustrated lectures are given, and opportunity is offered to the practicing physicians for consultations with specialists. Arrangements may be made for a single clinic and lecture or for a series of weekly, bi-weekly, or monthly clinics and lectures. Physicians enrolling for the course are charged a fee sufficient to cover part of the overhead expenses, the balance is paid from the small appropriation made for this work by the state legislature.

The three special subjects to be considered during the year 1921-1922 are: Obstetrics, Child Welfare, and Nervous Diseases. A library of Continental, English, and American motion picture films has been secured to be used in connection with the lectures on obstetrics.

DEPARTMENT OF PHYSICAL EDUCATION

PROFESSORS T. E. JONES (CHAIRMAN), LOWMAN (DIRECTOR OF MEN'S GYMNASIUM), MEANWELL, TRILLING (DIRECTOR OF WOMEN'S GYMNASIUM); ASSOCIATE PROFESSOR ELSOM; ASSISTANT PROFESSORS CARNS, H'DOUBLER, LIPPITT, RICHARDS, SCHLATTER; INSTRUCTORS BERG, BORGELT, BURKE, BROWNELL, ELMORE, GALL, KLEIN, LINDEN, MOSSCROP, STEINAUER, VAIL, WESSON; ASSISTANTS CARPENTER, DRIVER, HITCHCOCK, MEINERT, MCINTOSH, SMITH, STUPP, TRUMPF.

Jurisdiction

The Department of Physical Education has jurisdiction over all athletic, aquatic, and gymnastic activities.

Aims

The aims of the department are as follows:

A. Student Growth and Development

1. To contribute to health, organic vigor, and good physical habits.
2. To provide an incentive and an opportunity for every student to secure at least one hour's physical activity daily as a balance to the sedentary demands of university life.
3. To conserve the social and moral values of games and sports and to secure to every student the fullest opportunity for their practice.

B. Training of Teachers

To train physical educators and play leaders.

C. Extension

To promote a more effective organization of play and administration of physical education throughout the state of Wisconsin.

Equipment

The Men's Gymnasium is 200 feet in length by 100 feet in width, with an annex 225 by 84 feet. On the ground floor are the offices, locker rooms, bathrooms and swimming pool, and a special room for corrective exercise. On the second floor are the offices of the Military Department and an unobstructed hall 165 by 98 feet used for the purposes of military drill and games. On the third floor are the visitors' gallery of the drill hall, the military club room, and the wrestling room.

The fourth floor contains the gymnastic hall, 165 by 65 feet. The equipment includes the usual apparatus and four handball courts. The annex contains a 12 lap cinder track, a baseball cage with floor of earth, and the rowing room.

The Women's Gymnasium occupies five floors of Lathrop Hall. The main exercising room is two stories high with floor 118 by 60 feet, visitors' gallery, stage, and running track. The concert room, 72 by 42 feet, is used for smaller classes. An auxiliary class and game room, 42 by 72 feet, and a lecture room are on the fifth floor. The equipment includes a complete outfit of developing appliances and the best modern types of light and heavy apparatus.

Two floors of one wing contain dressing rooms, showers, and lockers designed for the accommodation of 1,000 women. In the basement are four regulation bowling alleys; the swimming pool, 60 by 26 feet, well lighted and ventilated and supplied with filtered water; dressing rooms, showers, and hair drying apparatus.

The outdoor facilities include the university athletic field at Camp Randall, 33 acres; the women's field at Memorial Park, 3 acres; the men's playground on the lower campus, 2 acres; and twenty-three tennis courts. The university roads, drives, and paths afford excellent courses for cross country running. The university boathouses next to the men's gymnasium on the shore of Lake Mendota contain ten 8-oared shells, two 8-oared barges, two 4-oared shells, two 4-oared barges, two 4-oared gigs and four "war" canoes and storage room for canoes belonging to students.

A modern 40 horsepower, high-speed launch, supplied with complete life saving equipment, is kept in constant commission for instant service throughout the boating season.

For outdoor sports in winter there are opportunities for skating and hockey on the rink maintained by the department on Lake Mendota.

Requirements

Physical training is required of all first and second year students throughout the college year, two periods a week for men and four indoor or three outdoor for women.

Men students are required to be able to swim a distance of fifty yards, women thirty-five yards, by the end of the sophomore year.

Credits to the extent of four for men and eight for women must be secured in physical education by the satisfactory completion of the regular courses.

Election of specialized sports and exercises (course 2) may be made by students as soon as they have attained the minimum standard of vigor, development, and skill. This will usually occur at the end of the first year. Freshmen who have attained the required standard at the time of entrance may elect their exercises under course 2.

For the purposes of this department the college year is divided into three seasons: **Fall**—October and November; **Winter**—December, January, February, March; **Spring**—April, May, and June. All activities are conducted out of doors as far as the weather will permit. Regular indoor exercise is confined to the winter months.

The regulation suit for men consists of white sleeveless shirt, running pants, supporter, and rubber soled shoes. For outdoor sports students will require heavy shoes, khaki trousers, and a negligee shirt or jersey.

For women a uniform suit is required and should be purchased in the fall in Madison: in 1921 the cost was about $10.

The gymnasium fee is $2.00 each semester, required of each freshman and sophomore and of all upper class women taking work in the department.

Exemptions and Deferments from Physical Training

All requests for exemption and postponements from phyiscal training for men must be made at the office of the Director of the Men's Gymnasium and be approved by the Director. Women should apply to the Director of the Women's Gymnasium in Lathrop Hall.

I. Exemptions provided for by the rules and regulations of the University:
   1. Physically unfit, on medical certificate from the Department of Clinical Medicine of the University.
   2. Short Course for Pharmacy students, known as Pharmacy II.
   3. Normal school graduates and those who enter the University with college work sufficient to give them junior rank in the College of Letters and Science, and other colleges with similar entrance requirements.

   Students coming under the above classes will fill out the official exemption form in the office of the Director of the Gymnasium and have same approved by his adviser, dean or medical examiner.

II. Excused from physical training under policy of the department on authority of the Director of the Gymnasium.
   1. Students from institutions of college or university rank giving accredited courses in physical education. Proper credentials must be presented to show actual performance of duty and that the course given elsewhere equals that given here.
   2. Adult Special students over 23 years of age not intending to graduate.
   3. Such other cases as the Director deems advisable.

III. Deferments required to be made up in the department.
   1. Self-supporting students where the hours of labor actually conflict with the hours of required work.
   2. All cases not falling under any of those previously mentioned.

Note: In no case will work be permitted to be deferred for more than one semester consecutively, and no deferred work will be allowed to extend into the senior year.

Medical and Physical Examinations

The organic condition, stage of physical development, and degree of motor efficiency attained by each entering freshman and sophomore are determined at the opening of the college year by a series of examinations and tests made by the Department of Clinical Medicine and the Department of Physical Education.

An endeavor is made to determine the student's exact organic condition with a view to outlining for him a proper regimen of exercise, diet, rest and work. Students are classified on an

organic scale and are permitted to engage only in sports and games for which they are physically fitted.

No student is permitted to participate in competitive games either of intercollegiate or intramural grade unless physically fit for the same as determined by the examinations.

All candidates for football and other teams must be examined by and secure the permit of the Department of Clinical Medicine as well as that of the Department of Physical Education before reporting for practice with their squads.

Enrollment and Assignment

All first year women are required to meet in the Concert Room, Lathrop Hall, Tuesday, Sept. 26, at 4:30 for instructions.

Assignments of classes will be made in the Gymnasium, Lathrop Hall, on Wednesday, Thursday, and Friday, Sept. 27, 28, 29, from 2 to 5 P. M.

All first year men in the College of Engineering will be assigned to class periods by the committees of that college. All first and second year men of the College of Agriculture and the College of Letters and Science will be assigned to class periods in physical education, at the office of the Men's Gymnasium during the week of registration, beginning Sept. 18. All assignments must be made by Saturday noon, Sept. 23.

All required activities of the Department of Physical Education begin Monday, September 25, 1922. All absences on and after that date must be made up.

Tournaments and Contests

Interclass and intercollegiate tournaments and contests are conducted in all games and sports under the supervision and control of the department.

In the conduct of the men's activities the department has the cooperation of the Intramural Athletic Committee of the Student Athletic Board consisting of six students representing Agriculture, Commerce, Engineering, Law, Letters and Science, and Medicine.

The Women's Athletic Association cooperates with the department in the conduct of women's activities.

These two student organizations determine the rating of the various sports and the awards for achievement in the contests and tournaments.

The University is a member of the Intercollegiate Conference Athletic Association and maintains representative teams in all intercollegiate sports. No student may be a member of an intercollegiate team unless (1) he is eligible according to the requirements of the Student Life and Interests Committee, (2) has been a year in the University, (3) has no conditions in his various courses, (4) has received a weighted average of 77 in the work of the previous semester, and (5) is carrying full work.

Intramural and intercollegiate sports are under the government of the Athletic Council, a subcommittee of the Faculty Committee on Student Life and Interests.

Voluntary Exercise

All students are urged to secure at least one hour of recreative exercise each day and the facilities of the entire department are open for this purpose whenever not required for prescribed activities. Advice and direction may be secured by any student at any time. All advanced practice courses are open to any student fitted to take them.

Professional Training

See also pp. 291ff.

Professional courses for teachers of physical education and for directors of play and recreation were organized at the beginning of the year 1911-12. The course is designed to provide a four-year professional preparation for those preparing to become instructors in physical education or directors of playgrounds and recreation centers. Provision is also made for students who desire to do additional work in physical education in preparation for combining leadership in physical education activities with academic subjects in the high school, for students who desire a familiarity with the problems of physical education as a part of their equipment as principals or superintendents in public schools or for positions as directors of social centers, and for students desiring academic courses in physical education as a part of a liberal education.

The courses listed cover instruction in seven phases of work: (1) technical physical training activities, e. g., games, athletics, dancing, aquatics, gymnastics, etc.; (2) the functions and values of vigorous psycho-motor activities in the development of the

child and in the recreative habits of the adult; (3) the growth, needs, and physical capacities of children and youth by age periods; (4) the physical examination and the classification of children and youth according to needs and fitness to participate in different activities; (5) the analysis and adaptation of activities to group and individual needs and capacities; (6) the principles of teaching and the methods of leadership in molding the moral expression of the powerful instincts expressed in play and in establishing hygienic and recreative habits; and (7) the principles of organization, management, and administration.

The requirements for the professional course are designed to prepare students for a responsible direction of physical training activities in all their developmental, hygienic, and social relationships. The development of physical education in the public schools, the rapid rise of playground organization, the emphasis on physical training activities in social centers and their introduction into social welfare institutions, are continually increasing the demand for well-trained physical educators who can make the activities of gymnasium, playground, and athletic field physically safe and developmental, morally constructive, and a source of recreative habits that last for life and conserve adult physical resources. These responsibilities require a training in the seven phases of work outlined above with a preliminary training in biology, chemistry, anatomy, physiology and psychology.

No university credit will be given in the special technique courses except to students taking the professional course in physical education or to students minoring in physical education.

State Teachers Certificate

Graduates in physical education will be entitled to receive the state teachers certificate offered in the School of Education by fulfilling the requirements in physical education and 6 hours in education.

They will also be entitled to a special state certificate given by the State Board of Examiners.

See p. 274.

Courses of Instruction

Required for All Freshmen and Sophomores

1. Developmental Exercises. 1 or 2 cr. Prescribed for all freshmen and such sophomores as have not attained the requisite

development. Men, two hours; women, four hours weekly.

2. Advanced Exercises. 1 to 4 cr. Systematic courses in athletics. Open to all students who have attained the required degree of organic power and bodily skill. Prescribed for sophomores who have completed course 1. Prerequisite: course 1 or its equivalent.

3. Special Corrective Exercises. 1 or 2 cr. Required of all freshmen and sophomores unfitted to take courses 1 and 2.

4. Efficient Living. Given with course 1.

The work in courses 1, 2, 3, 4, and 20 is differentiated for the men and women according to their respective natures and needs.

Fall	Winter	Spring
1. Baseball	2. Basketball	1. Baseball
5. Cross country running	3. Boxing	4. Canoeing
8. Field hockey	6. Dancing	8. Field hockey
9. Football	7. Fencing	9. Football
13. Rowing	10. Gymnastics	13. Rowing
15. Soccer	11. Handball	15. Soccer
16. Swimming	12. Ice hockey	16. Swimming
17. Tennis	13. Rowing	17. Tennis
18. Track and field	14. Skating*	18. Track and field
	16. Swimming	
	18. Track and field	
	19. Tumbling	
	20. Water Polo	
	21. Wrestling	

*Part season only and according to weather. May be elected only in connection with some other sport.

For Professional Students

For courses for professional students which are given under the jurisdiction of the School of Education, see pp. 291ff.

MILITARY SCIENCE AND TACTICS

PROFESSOR OF MILITARY SCIENCE AND TACTICS: MAJOR JOHN S. WOOD, FIELD ARTILLERY, U. S. A., COMMANDANT; ASSISTANT PROFESSORS OF MILITARY SCIENCE AND TACTICS: MAJOR ORLANDO WARD, FIELD ARTILLERY, U. S. A., MAJOR HOWARD P. MILLIGAN, INFANTRY, U. S. A., CAPTAIN JOHN A. BALLARD, SIGNAL CORPS, U. S. A., CAPTAIN JOSEPH H. COMSTOCK, INFANTRY, U. S. A., CAPTAIN RICHARD Z. CRANE, ORDNANCE DEPARTMENT, U. S. A., FIRST LIEUTENANT ERIC A. ERICKSON, FIELD ARTILLERY, U. S. A., FIRST LIEUTENANT EDWIN E. SUTHERLAND, INFANTRY, U. S. A., FIRST LIEUTENANT JOHN T. KEELEY, U. S. A., SERGEANT MAJOR, WILLIAM G. ATKINS, U. S. A., Retired.

Object and Scope of Instruction

The object of the military instruction is to train students for the performance of the duties of commissioned officers, should their services be needed by the country. The instruction is necessary in order to prepare them to perform these duties intelligently and enables them to be thus partly trained with the least practicable interference with their civil careers. It is hoped that by this system there may be available, in time of national emergency, an increased number of educated men, trained to a certain extent in military science and tactics, to officer and intelligently lead the units of the large armies upon which the safety of the country will depend.

The courses are required for freshmen and sophomores, and elective for juniors, seniors, and graduate students. As the object of the training is to bring the largest possible number of students up to the proper standard of proficiency, and as the work is required by the rules of the University, exemptions, except for physical disability and as noted below, cannot be accorded to freshmen and sophomores, and any student who is absent from any part of the instruction will be required, subsequently, to make up the omitted training before being credited with the number of units necessary for graduation.

The courses provide the ground work upon which to build

military character and proficiency, and are designed to develop the greatest possible initiative on the part of the student. They also provide that the cadet officers and non-commissioned officers shall participate in the administration and training and share the responsibility therefor.

Rating as Distinguished College

Institutions whose students have exhibited the greatest application and proficiency in military training and knowledge during the academic year are designated annually by the War Department as "distinguished colleges and honor schools." The University of Wisconsin, having been thus designated for the year 1921, is authorized to recommend two Honor Graduates of the Department for appointment as second lieutenants in the United States Army.

Registration

All male freshmen and sophomores are required to report to the Commandant in person during the registration period. They will then be assigned to companies and should, at this time, present any excuse which may operate to exempt them from drill or necessitate its deferment.

Exemptions

Exemptions are granted to the following:

(1) Foreigners not desiring to become citizens.

(2) The permanently physically unfit on medical certificate from the University Clinic.

(3) Members of short course in Pharmacy.

(4) Normal school graduates and those who enter with sufficient advanced credit to give them junior or senior standing.

(5) Discharged commissioned officers of Army, Navy, or Marine Corps.

(6) (a) Men honorably discharged after six months or more service in Army, Navy, or Marine Corps.

(b) Three months' service as an enlisted man in overseas service.

(c) Four months' duty in the Service of Supply, or in training camps or schools in Europe.

Reserve Officers' Training Corps

The Department of Military Science and Tactics comprises Infantry, Field Artillery, Signal Corps, and Ordnance units of the Reserves Officers' Training Corps, organized under the National Defense Act of June 3, 1916. This act provides for a progressive course of military training consisting of two years' basic and two years' advanced work. Three hours a week are required in the basic course.

Upon the completion of the sophomore year of the basic course, those students who are selected for further military training by the President of the University and the Commandant may elect to take the work of the advanced course. This necessitates a written agreement on the part of the student that he will continue the work, taking it five hours a week until the end of his college course, and attend one summer camp of not more than six weeks' duration. Upon the execution of this agreement, the War Department furnishes to members of the advanced course, in addition to uniforms and equipment, commutation of subsistence at the rate of about $13 a month for twenty-one months. Students are paid at the rate of $30 a month while attending advanced course camps. All transportation to and from the camp and the expenses at camp are paid by the government.

Upon the satisfactory completion of the advanced course together with such camp training as may be prescribed, graduates who are twenty-one years of age are eligible for appointment by the President of the United States as members of officers' reserve corps.

Advanced Courses

The advanced courses in the Military Department are as indicated below. These courses are considered as three-fifths elective courses and academic credit is granted accordingly.

Infantry

1. **Military Science.** Yr. Field engineering; infantry weapons; minor tactics; leadership. Commandant and Assistants.

2. **Military Science.** Yr. Military history and policy; military laws; administration; minor tactics; musketry; leadership. Commandant and Assistants.

Artillery

1A. Military Science. Yr. Field engineering; minor tactics; reconnaissance; topography; gunnery; artillery material, motors; equitation. Major Wood, Major Ward, Lt. Erickson.

2A. Military Science. Yr. Military history and policy; military law; administration; minor tactics; reconnaissance; gunnery; material; equitation. Major Wood, Major Ward, Lt. Erickson.

Signal Corps

1S.C. Military Science. Yr. (In conjunction with Signal Corps 154a, 154b, College of Engineering, and Military Science 1). Signal Corps organization and tactics; telephone net construction and operation; message centers; codes and ciphers. Capt. Ballard.

2S.C. Military Science. Yr. (In conjunction with Courses 155a, 155b, College of Engineering, and Military Science 2). Signal tactics. Capt. Ballard.

Ordnance

10. Military Science. Yr. (In conjunction with Military Science 1.) Ordnance material, nomenclature, action, care and use. Capt. Crane.

20. Military Science. Yr. (In conjunction with Military Science 2.) Exterior and interior ballistics; gun design; optics of fire control instruments; explosives. (Given in College of Engineering). Mr. Roark.

Uniform

All students will be provided with a cadet uniform as prescribed by and furnished through the Military Department. A deposit for this uniform is required but is returned to the student by the Bursar at the end of the academic year as explained in the *Regulations of the Military Department*, copies of which may be obtained from the Commandant.

WASHBURN OBSERVATORY

GEORGE C. COMSTOCK, DIRECTOR AND PROFESSOR OF ASTRONOMY; ALBERT S. FLINT, ASTRONOMER, *Emeritus*.

The Washburn Observatory was established in the year 1878 through the munificence of the late Gov. Cadwallader C. Washburn. Although its obligations and opportunities as a branch of a teaching university have not been ignored, the energies of its staff from the beginning have been directed mainly to astronomical research. Among the lines of research cultivated are the measurement of the positions and motions of the heavenly bodies, the discovery and measurement of double stars, with investigations of their orbits, the investigation of variable stars, the study of changes of latitude and the amount and character of the atmospheric refraction, the determination of the amount of the aberration of light, problems of stellar color, proper motions of faint stars, and a systematic investigation of the parallaxes of all accessible stars which have large proper motions.

The principal instruments of the Observatory are:

An equatorially mounted telescope of 40 centimeters aperture, constructed by Alvan Clark & Sons, and provided with graduated circles, driving clock, a filar micrometer, a spectroscope, astrophotometer, and a very complete set of eyepieces; a meridian circle, by A. Repsold & Sons, of Hamburg, with collimators, transit micrometer, and the usual accessories of such an instrument. The objective of the instrument was made by the Clarks, and has an aperture of 12 centimeters and a focal length of 145 centimeters. The circle is graduated to 2 minutes of arc. For several years this instrument has been employed in an extensive series of determinations of stellar parallax. There are also a sidereal clock by Höwü, of Amsterdam, two meantime clocks by Howard, of Boston, a chronograph, by Fauth & Co., of Washington, and a printing chronograph by Gaertner.

In the Students' Observatory are mounted an equatorial telescope, by Alvan Clark & Sons, of 15 centimeters aperture, and a transit instrument of the broken telescope type, by Bamberg. These instruments, while primarily intended for instruction, are

well adapted to and are employed for certain classes of original work. The Bamberg instrument is used for latitude determinations by the Talcott method and for the time service of the Observatory. The Observatory also possesses a considerable number of subsidiary instruments, such as portable telescopes, spectroscopes, photometers, chronometers, sextants, engineers' transits, an altazimuth, a universal instrument, a personal equation machine, a spherometer caliper, seismoscopes, photographic and meteorological apparatus, and nautical charts and instruments.

The Woodman Astronomical Library, established in connection with the Observatory, and supported from the income of a fund given by the late Cyrus Woodman, possesses a large and valuable collection of works upon astronomy and kindred subjects.

The results of important investigations conducted at the Washburn Observatory are published by the state, and thirteen volumes, representing the more important work done, have been issued.

Students of sufficient technical attainments are admitted to the Observatory and take part in the investigations in progress. Meritorious original work of such students may be included in the Publications of the Observatory. For the courses of instruction in Astronomy see p. 142.

UNITED STATES WEATHER BUREAU OFFICE

ERIC R. MILLER, OFFICIAL IN CHARGE.

The local office of the United States Weather Bureau is located at the University as a result of the policy of the University to cooperate with the scientific branches of the Federal Government, a policy that is also expressed in its association with the Agricultural Experiment Station, the Forest Products Laboratory, the Geological Survey, etc. The official in charge gives instruction in meteorology in the College of Letters and Science, information regarding which will be found on p. 208.

The office, where the recording apparatus is in operation, is in room 409, North Hall. The exposed apparatus is mounted on the roof of the same building. The equipment includes eye-reading apparatus for measuring the pressure, temperature, and humidity of the air, the rainfall, the direction and velocity of the wind, the duration and intensity of sunshine, and the polarization of sky light, and automatic registers for continuously recording the majority of these elements.

Meteorological observations were made at Madison between 1853 and 1864 by Professors S. H. Carpenter and J. W. Sterling at the University, and Dr. A. Schue at his office on Main Street. From January, 1869, to October, 1878, they were carried on by Prof. W. W. Daniels at the University. The Signal Corps, United States Army, maintained an observing station in Madison from October, 1878, to April, 1883, while from May, 1883, to September, 1904, the observations were made at the Washburn Observatory. The present office, since its establishment in September, 1904, has continued the series of observations. All of these records are now on file in the Weather Bureau office, where they may be consulted. The office also has reports and publications relating to the weather and climate of the United States and other countries and is prepared to furnish information regarding them.

The office receives telegraphic reports from similar offices distributed over the United States and Canada, at 7 a. m. and 7 p. m. and prepares and distributes to the press and the public in central and southwestern Wisconsin the daily weather bulletin, the weather forecast, and other weather information. The office is open to the public from 9 a. m. to 4 p. m. daily, except Sundays and holidays.

FOREST PRODUCTS LABORATORY

MR. WINSLOW (CHAIRMAN), MR. TIEMANN, MR. NEWLIN, MR. MARKWARDT, MR. KOEHLER, DR. GERRY, DR. HAWLEY, MR. BATEMAN, DR. SHERRARD, MR. HUNT, MR. HUMPHREY, MR. RUE, MR. WELLS.

General Statement

The Forest Products Laboratory is a scientific institution engaged in industrial research for the Forest Service, United States Department of Agriculture, in cooperation with the University of Wisconsin. This research organization is engaged in studying problems bearing on the most efficient use of the products of the forest, and disseminating such knowledge. The staff of the laboratory cooperates with that of the University of Wisconsin in the courses of lectures and researches outlined below. The laboratory offers unusual facilities for research in the field of forest products and possesses very complete scientific and technical equipment for this purpose. In its investigation it approximates closely commercial conditions and cooperates extensively with the various manufacturing establishments in testing out its researches on a commercial basis.

The technical investigations of the laboratory are as follows:

(1) Mechanical Properties of Wood. Investigations on strength, stiffness, hardness, and other mechanical properties of commercial woods; effect of treatments on strength; tests on fabricated materials and manufactured articles; the development of grading rules for structural timbers.

(2) Seasoning and Wood Structure. Determination of best methods of air seasoning and kiln drying to eliminate losses; design and operation of dry kilns; studies of commercial kilns; the structure and physical properties of wood; microscopic studies and identification.

(3) Shipping Containers. Study of wooden and fiber shipping containers, with special reference to design and specifications to develop containers which will deliver the contents to the consumer in a satisfactory condition at a minimum total cost.

(4) Plywood, Glues and Laminated Stock. Study of plywood

manufacturing problems; strength and design of plywood; development and improvement of glues; investigation of internal stresses in laminated construction; study of new uses for laminated construction in commercial work.

(5) By-Products and Chemical Studies. Researches on the methods of production and utilization of by-products such as alcohol, turpentine, rosins, acetates, etc., obtained from various forms of wood and wood waste; the suitability of woods for pulp and paper and fiber specialties; the efficiency of various wood preserving processes and preservatives; fire proofing of wood and slow burning construction; researches on fungi which attack structural timbers with investigations aimed at practical means of prevention.

(6) Technical Studies of Industries. Study of the economic utilization of wood in the logging and milling of timber and manufacture of wooden products, lumber and cross tie grades and specifications.

The lectures and research are offered by the staff of the laboratory to both undergraduates and graduates, who may choose one of the problems as major or minor work for a thesis for a degree.

Student Research Assistantships

Students who show unusual ability in research may be appointed as student research assistants in this laboratory by the Forest Service or by the Bureau of Plant Industry, in accordance with the regulations of the United States Civil Service Commission. The salary will not exceed $500 a year; tuition and laboratory fees will be remitted. Application for these assistantships must be made to the director of the Forest Products Laboratory. The number of students thus appointed will largely depend upon the funds available and the number of problems taken up by the laboratory for solution.

Lecture and Laboratory Courses

A general course on forestry and utilization (101) is given during the first semester and is open to any student. This is followed in the second semester by a technical course in wood technology (102) open to all junior, senior, and graduate students and one on structural timbers (110) which is adapted particularly to junior,

senior, and graduate engineers. One lecture course in the chemistry of wood utilization (103), including a description of industrial chemical processes of using wood as a raw material is given. Special research work can be arranged for graduate students. A course in pathology of wood (119) is given in cooperation with the Department of Plant Pathology during the second semester.

CHEMISTRY OF FOREST PRODUCTS

LECTURERS BATEMAN, HUMPHREY, HAWLEY, SHERRARD, RUE, WELLS, HUNT.

For Undergraduates and Graduates

103. Industrial Chemistry Applied to Forest Products. II; 2 cr. Prerequisite: Chemistry 120. Mr. Bateman, Mr. Hawley, Mr. Sherrard, Mr. Rue, Mr. Wells, Mr. Hunt.

For Graduates

208. Research in Forest Products Chemistry. Yr.; hours to be arranged.

A. Coal tars, wood tars, and wood preservatives. Mr. Bateman.

B. The production of ethyl alcohol from wood waste; carbohydrates and fermentation. Mr. Sherrard.

C. Wood distillation, wood extraction and terpenes. Mr. Hawley.

D. The chemical action of bacteria and fungi on carbohydrates. Mr. Humphrey.

E. Pulp and paper. Mr. Rue.

F. Wood preservation and glues. Mr. Hunt.

FORESTRY AND WOOD TECHNOLOGY

LECTURERS TIEMANN, GERRY, HUMPHREY, KOEHLER, NEWLIN, MARKWARDT, HUNT.

For Undergraduates and Graduates

101. Forestry and Utilization of Wood. I; 2 cr. Mr. Tiemann, Mr. Koehler, Miss Gerry.

102. Wood Technology. II; 2 cr. Mr. Tiemann, Mr. Koehler, Miss Gerry.

110. Structural Timbers. II; 1 cr. Course will not be given unless attended by at least five students. Prerequisite: Mechanics 2 and 3. Mr. Newlin, Mr. Koehler, Mr. Hunt, Mr. Markwardt.

119. Diseases of Timber and Forest Protection. In the Department of Plant Pathology. See p. 377.

SPECIAL LECTURES

Given to supplement regular courses in the University of Wisconsin.

IN THE DEPARTMENT OF BOTANY

110. Plant Histology. Two lectures on wood structure. Miss Gerry.

115. Histology of Woods. Four lectures on the minute structure and characteristics of the wood of important forest trees. Miss Gerry, Mr. Tiemann.

IN THE DEPARTMENT OF MANUAL ARTS

4. Elementary Bench Woodwork. Five lectures on the physical properties of wood and wood structure. Mr. Tiemann, Miss Gerry.

5. Furniture and Cabinet Design and Construction. Three lectures on the theory and practice of kiln drying. Mr. Tiemann.

10. Wood Finishing. One lecture on the structure, development, and significance of tyloses. Miss Gerry.

IN THE DEPARTMENT OF AGRICULTURAL ENGINEERING

1. General Agricultural Engineering. One lecture on practical methods of preserving farm timbers. Mr. Hunt.

IN THE DEPARTMENT OF MECHANICS

52. Materials of Construction. One lecture on factors influencing the working stresses and grading of timber. Mr. Newlin.

IN THE UNIVERSITY EXTENSION DIVISION

Several lectures on various technical activities of the Forest Products Laboratory will be given. More specific announcements to be made by the Extension Division. Mr. Koehler.

IN THE DEPARTMENT OF HORTICULTURE

10. Farm Forestry. Two lectures on the properties of wood and preservation of farm timbers. Mr. Koehler, Mr. Hunt.

SUMMER SESSION

SCOTT H. GOODNIGHT, DIRECTOR.

The Summer Session, originated twenty-four years ago as a period of study and review for teachers, has become an integral part of the university year. Nearly all departments are represented. The courses range from preparatory work for students seeking to meet entrance requirements through all grades of undergraduate work to the most advanced graduate instruction and investigation. The work for teachers and for graduate students receives major emphasis, but very many undergraduate students of this and other colleges now avail themselves of the opportunity thus presented to shorten the period of their college courses or to make up deficiencies in either preparation or course requirements. They have the advantage in summer of being free from many of the distractions (intercollegiate games, fraternity rushing, etc.) which obtain during the semesters. At the same time there is no lack of social life and wholesome recreation during the summer.

Duration of the Session

The twenty-fourth Summer Session of the University of Wisconsin opens June 26, 1922. The session lasts six weeks and closes August 4. In the Law School the session begins June 19 and ends August 25.

Classes of Courses

Courses, both academic and professional, are offered for graduates and for undergraduates in arts, engineering, medicine, law, and agriculture, for teachers in colleges, agricultural schools, high schools, and technical schools, and for special students, as lawyers, doctors, chemists, writers, social workers, farmers and practicing engineers.

Virtually all the courses carry full academic credit. All the library, laboratory, and other facilities of the University are avail-

able during the summer and the opportunities for thesis and advanced investigative work are particularly favorable at this time.

Terms of Admission

The requirements for admission for graduates and undergraduates who desire university credit are the same for the Summer Session as for the other sessions of the University. (See pp. 105ff.)

Students who desire to enter with advanced standing from normal or college should submit either by mail or in person, a complete record of their preparatory and college credit to the chairman of the Advanced Standing Committee, Professor C. A. Smith, Bascom Hall. Blank forms for submitting such records will be supplied upon application to the chairman.

Credit students who do not desire to become candidates for a degree at this University need not comply with the entrance requirements. They may register in any course or courses the work of which, in the estimation of the instructors in charge, they are able to carry to advantage. If such students complete the work of a course satisfactorily, the Registrar will, upon application, issue a statement to that effect, stating hours of work carried and grades earned. Credit toward graduation at this University, however, will be given only after regular matriculation by one of the methods described above.

Correspondence relative to graduate work should be addressed to Dean C. S. Slichter, Bascom Hall. A special bulletin of the Graduate School will be mailed upon application.

Auditors and Special Students

Adults who desire to pursue college work for their profit or pleasure, but without reference to a degree, also those who desire merely to visit lecture courses in subjects which are of special interest to them, without being held responsible for the work expected of students working for credit, may register in the summer session as auditors. Not all courses are open to auditors. In the Summer Session bulletin, which is issued in March, all courses are indicated as open, or not open to auditors. Auditors pay the same fee as other students and enjoy the same privileges, except that of being included in recitation and theme work.

Credits for Summer Session Work

A student in any of the colleges may receive for the session of six weeks a maximum of six credits. Credit toward all degrees may be earned in the Summer Session. Candidates who expect to offer for graduation the minimum of thirty credits must spend two semesters in residence; those who expect to offer forty-five or more credits earned in residence, may earn all or any part of them in Summer Session.

A special method of obtaining the master's degree by part summer session and part *in absentia* work is described on page 177 of this catalogue.

Fees and Registration

The general fee for Summer Session, irrespective of the number of courses taken, is $22, except in the Law School (ten weeks) where the fee is $35.

Registration must precede entrance upon any part of the work of the session. Registration takes place Saturday, June 24, at the office of the Registrar, 158 University Hall. In the Law School, registration takes place on Saturday, June 17, only.

Students who continue work beyond the regular summer session must pay an additional fee of $3.25 per week.

For estimates of the expense of a student during a session, see page 88. A preliminary announcement of the Summer Session is issued in January and a bulletin giving details in March. Copies of these may be had on application to the Director.

PUBLIC LECTURES

Each year the University arranges a series of public lectures, and brings to Madison for that purpose a number of distinguished speakers. The aim is to provide lectures of general interest and to have them cover a wide range of subjects. The lectures are free to the students and to the public.

1921.

September 27.
John Calder.
"The Industrial Plan in Packing."

October 24, 25, 27, 28, 29.
Professor Ernest Cohen.
"Metastability of Matter"; "High Pressure Researches."

November 10.
Dahn Gopal Mukerji.
"Inner Life of India."

November 3.
Sir William Ramsay.
"Present Conditions in Near East."

November 25.
Glenn Plumb.
"Industrial Democracy."

November 28.
Professor C. H. Grandgent.
"Dante Six Hundred Years After."

December 2.
W. H. Park.
"Recent Advances in the Control of Infectious Diseases."

December 6.
C. J. Hicks.
"Industrial Co-Operation."

December 12.
Miss Helen Fraser.
"Some Personalities in British Politics."

1922.

January 4.
Dr. Louis Anspacher.
"Drama as a Social Force in Democracy."

January 12.
Henry Oldys.
"Birds and Bird Music."

January 18.
Professor Henry Chamard.
"Molière et La Grande Comédie." (French).

February 23.
W. H. Ellsworth.
"The Joy of Writing."

March 20.
Dr. Alfred M. Tozzer.
"The Sacred Well of the Mayas and its Treasures."

March 29, April 5, May 3, 10, 17.
Professor Charles Cestre.
"The French Ideal of Faith and Chivalry."
"The French Ideal of Reason."
"The French Ideal of Progress."
"The French Ideal of Equality and Solidarity."
"The French Ideal of Peace."

April 5.
Miss L. T. Castelvecchio.
"Social and Political Conditions in Italy."

April 6.
Whiting Williams.
"Labor Conditions in France and Germany."

April 25, 26, 28.
Zona Gale.
"The Novel."
"The Novel and Beauty."
"Making a Play from a Novel."

May 3.
Prof. Albert Mansbridge.
"Adult Education in Great Britain."

May 9.
Professor Harvey W. Prescott.
"The Haunted House; A Typical Roman Comedy."

May 19.
Professor J. P. Lotzy.
"The Virgin Forests of Java."

DEGREES

Conferred on Commencement Day, 1921

COLLEGE OF LETTERS AND SCIENCE

Bachelor of Arts

Selma Carrie Albrecht
Rosamond Allen
Neva Esther Anderson
Celia Victoria Andrews
Stephen Alexander Aschenbrenner
Charles D. Assovsky
*Allen Sunday Austin
Caryl Monona Bacon
Isabel Lyman Bacon
A. Erminie Ballard
Myrtle D. Bangsberg
Elzaida Mildred Barrett
Dorothy Jane Bassett
Valdis Marion Bendeke
Donald Menzies Bennett
*Esther Mary Berry
Marie Louise Bielenberg
Edna Maurene Birtcherd
Bertha Pauline Blaul
Bruce Marty Blum
Marie Viola Bodden
Kathryn M. Boehmer
Warren Albert Bohl
Addella Boles
Lydia Aurelia Bolliger
Gladys Louise Borchers
William Henry Borden
Alan Arthur Boyden
Milton Nunn Bramlette
Anna Bergitte Breidablik
Margaret Frances Breitenbach
Thomas Evans Brittingham, Jr.
Grant Houston Brown
Leslie Edwin Brown
Lois Enid Brown
Virginia Hempsted Bugbee
Thomas Nicholas Burke
Lois Frances Burnham
*Stanley Van Dyke Butts
Ruth Byers
Hugh McIntyre Caldwell
Charlotte Joslin Calvert
Dorothy Mable Carlock
Esther Jean Carpenter
*Horace Jones Carver
Jean Bosler Chamberlain
Elizabeth Ash Chandler
Ruluf Arthur Chase
Wan Hsuan Chiao
Oscar Christianson
*Grace Clark
Mabel Louise Claxton
Helen Clayton
Frances Eugenia Conklin
†Irene Grace Conley
Russell A. Conn
Fern Elizabeth Constance
Mabel Louise Cook
Doris Edwina Cooper
Pauline Dorothy Cornish
William Philip Corr
Deirdre Dorothy Cox
Eleanor Harriet Cox
Henrietta M. Crabbe
*Marguerite Isabel Croskey
Jesse George Crownhart
*Lucian Glenn Culver
*Katharine Rosamond Curley
Viola Alyse Cutler
Mildred Veronica Dachtler
Alan Cecil Davey
J. Hyman Davidson
Robert William Davis

*Degree conferred since Commencement, 1921.
†Degree conferred January 19, 1921.

Marion Debbink
Sophie Anne Dehler
Loretta Delker
*Doris Dellicker
Grace Marion Desimval
*Bess Beatrice DeVilbiss
Marion Dickens
Frances E. Diebold
Myron George Docter
Howard McLellan Dodge
Delma Ellen Donald
Edith Isabel Dopp
Philip Herschel Dowling
John Harold Draper
Hazel Lorinda Dreier
Joseph Antone Dreps
Frances Dummer
Elizabeth Dawson Dunbar
†Rose Magdalene Durch, (as of the class of 1920)
Frances Elizabeth Dwight
Kenneth Leland Ede
Dewey George Edson
Wilmer Charles Edwards
*Eulalie Alfreda Emanuel
*Clyde Burtis Emery
*Arthur Ende
Janet Sylvia Epstein
Eunice Mariette Ethier
Alice Louise Evans
Dorris Evans
Margaret Jane Evans
Maysel Evelyn Evans
Adele Marie Falk
*Philip Hadley Falk
Donald John Fiedler
Flora Marie Louise Filtzer
Edith Louise Finch
*Warren Charles Fischer
Katharine Fishburn
Elizabeth Mildred Fisher
Margaret Fisher
Lothrop Frank Follett
Allen Bennett Forsberg
Katharine Gertrude Forward
*Marguerite Arline Francis
Louis Franklin
Dorothy Lillian Fritsch
Joseph Guerin Fucilla
Clarence Edward Fugina
Agnes M. Fuller
Edna Courtney Gapen
Zelda Judith Gapen
Florence Eva Gerken
Virginia Lundy Gibson
Helen Etta Gill
Grace Alise Gleerup
Sylvia Hellena Gnewikow
Wilber William Goessling
Marion Goodwin
*Marian Maxwell Goss
*Esther Gertrude Graham
Raymond Carl Grams
Gladys Greene
Charles George Greenwood
Mabel Josephine Gregg
Gussie Ann Gruenheck
†Rebecca von Grueningen
Eleanor Marie Gutenkunst
Anna Helen Hadfield
Gladys Richey Hadley
Lennox Glen Haldeman
*Joseph Alfred Hall
*Edward Paul Halline
Josephine Marie Halsor
Harriet Elizabeth Hammond
Mary McDuffie Hampton
Madeleine Prudence Hancock
Catherine Louise Hanitch
Julia Judge Hanks
Gladys Louise Harloff
Helen Campbell Harper
Mae Evelyn Hart
Hazel May Hatfield
Rachael Hauck
*Eleanor Henrietta Hausmann
Catherine King Heath
Oscar Edward Hertzberg
Marcia Nelson Hinkins
Dorothy Hinman
Agnes Ames Hiss
Marjorie Jean Hoard
Dorothy June Hooper
Kenneth Harry Hoover
Kathryn Hornibrook
Lucille Marie Hubbard
Lydia Elizabeth Hunt
Rhea Hunt
Elizabeth Huston
Leland Hyzer

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†Degree conferred January 19, 1921.

Irene Gwendolen Ingli
*Walter Julius Ingram
Esther June Irish
Agnes Mathilde Iversen
Frances Ernestine Jenison
Blandford Jennings
Almeda Alice Johnson
Mary Anastasia Johnson
Miriam Louise Johnson
Thelma Beryl Johnson
*Amaretta Beth Jones
Mabel Jennings Jones
Russell Alger Jones
Leon Emanuel Kaumheimer
Helen Lincoln Keith
Lucy Mary Kellogg
Lucile Ernestine Kessenich
Constance Kinne
Edith Gray Knowles
Carl Henry Kohlhoff
Paula Vera Komers
Esther Viola Krebs
George Charles Kreutz
Dorothy Anne Kropf
Norman Albert Kucheman
*Lucile Kyle
Lydia Joy Lacey
Frances Hamilton Latimer
Dorothy Latta
Nels Christian Lerdahl
*Julia Thomas Lightbody
Edward Leo Loughlin
Doris Gretchen Lucas
Joseph Henry Lugg
*Robert Donlan Lyons
Mary Agnes McAdams
Helen M. McCarthy
*Ruth Mary McClelland
Jessie Beatrice McConnell
Marion Edith McCullough
Leone McDermott
Edward Martin McDonald
Mildred Marie McKitrick
Dorothea Drummond MacLaurin
*Glenn John McMullen
Hilda Barney Mabley
*Helen Monica Madden
Frederick William Madison
Margaret Wilde Mallory
Elizabeth Markham
Norbert W. Markus
Jane Ramsey Grant Marshall
Samuel Hagar Marshall
Jennie McKee Martin
Mary Lenore Martineau
Marie Martinstein
Rosa Marty
Elizabeth White Meadows
Malcolm Mecartney
*Dudley Holmes Meek
*Albert Erwin Meinert
Anita Louise Meyer
*Helen Frances Meyer
Nella Katherine Meyer
Ruth Victoria Milbrandt
Ruth Beatrice Miller
Marie Eva Mitchell
Charles Francis Moore
Lillian Maude Morehouse
Genevieve Eleanor Morgan
Jane Winifred Moss
Emma Caroline Mueller
Herbert Arthur Müller
Alice Beecher Munro
Harry Muskat
*Kathryn C. Mykel
Mary Coe Neiberger
Lincoln Neprud
Clara Forrest Newcomb
Helen Newcomb
Mary Alice Newton
Ludlow Frey North
Agnes Sarah O'Hora
Aileen Elizabeth O'Keefe,
Lucille Elizabeth O'Keefe
*Irene Hazel Olin
Catherine Wells Oppel
Robert C. Orr
Wayland Osgood
Michael Vincent O'Shea, Jr.
Thelma Antonette Otteson
Helen Joanne Owen
Lora Belinda Palmer
Conrado Mercader Par
Mary Julia Parkinso.
Josephine Bloodgood Passmore
Josephine Norris Patchen
Charlotte Elizabeth Peabody
Josephine Rae Pearson
Marian Loveday Penhallegon
Olive Walton Pepper
*Hasso Karl Pestalozzi

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Eleanor Lelia Peterson
Burr Wendall Phillips
Vera Irma Phillips
William John Pitchard
DeWitt Van Pinkerton
Joseph Harold Pleck
Paul Dearborn Plowman
Dorothy Janet Poertner
Bertha Maude Pollock
Helen Catherine Pouder
Alan Emmons Pradt
Mary Ellen Preston
*Margaret Amelia Quinlan
Edwin Donald Ralph
John Binford Randolph
Grace Brewster Raymond
Zilpha E. Reed
Warren Herlan Resh
Mary Dorothy Richey
Eleanor Farrell Riley
Arnol Victor Roberts
Esther Josephine Roberts
*Clark Mead Robertson
*Ruth Evelyn Rockwell
Evora Kathryn Roessler
Mildred A. Rogers
Florence Marie Ross
Dorothy May Rounsevell
Edith Hull Royse
Leona Emily Ruder
Ruth Elizabeth Ruggles
Ruth Elizabeth Rummele
Cecil Macauley Russell
Edith Johannah Ruth
Signa Mary Ruth
*William Thomas Rutherford
Frances Aveline Ryan
Edgar Andrew Rygh
Helen Elizabeth Sackett
Jane Frances Salisbury
Agnes Helen Samuels
Vinnie Frances Sanborn
*Dorothy Schaper
Emmy Schecker
Lucille Amber Schneller
Marion Elaine Schroeder
Louise Marie Schuette
Gertrude Marie Schuller
Arlisle Schumaker
Gretchen Schweizer
Maragaret Helen Scott
Dorothy Melissa Seaton
*Ruth Helen Seeger
Hazel Arlina Seguin
*John William Selds, Jr.
Don Lee Shaw
†Edith Verena Shea
Marguerite Eugenia Shepard
Beatrice Sherburne
Joe Robert Sherr
Adrienne Alba Shreve
Grace Elizabeth Simons
Sister Mary Pierre Hanrahan
Marguerite Skaar
Florence Ida Smiley
Frances Eugenia Smith
Mabel Mayhew Smith
Helen Marie Snyder
Murray Hugh Sprague
Irene Johanna Staab
Lillian Mabel Steadman
Marjorie Frances Stetson
Linton Cooke Stevens
Thelma Butler Stevens
Eva Caroline Stevenson
Helen Stevenson
*Mary Gilliam Stinson
Mary Elizabeth Stork
Ruth Storms
Laura Frances Sullivan
Wheelan Dwight Sutliff
Mary Florence Swan
Ida Estelle Swancutt
Victor Spartan von Szeliski
Leslie William Tasche
*Eva Minerva Taylor
Dorothy Grace Teare
Hugh Longwill Templeton
Vera May Templin
Mildred Florence Thoms
John Norman Thomson
Winifred Titus
Mandt Torrison
*Feng Tsai
Frances-Ellen Tucker
Ethel Vinje
Mary Toucey Voorhees
Gretchen Pauline Votteler
Mina Kathleen Waite
Philip Clawson Waite

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†Degree conferred as of the class of 1920.

Emroy Clement Walker
Chester Davison Walz
Alonzo L. Ward
Eva Kate Waterbury
Elizabeth Marian Waterman
James Hugo Wegener
Raymond Guthard Weihe
Carroll Omar Whaley
Lola Ferne White
Beryl Esther Whitney
*Anella Marie Wieben
Clara Florence Wigder
Ada Griswold Williams
Dorothy Mae Williams
Helene Elizabeth Wilson
Kathrine Winckler
Marion L. Witter
*Norman Lorenz Wittkop
Lorelle Arthur Wolf
John Calvin Wolfe
*Ruth M. Wolfe
Seth August Wolfe
*Hazel Appleby Wood
Hazel Embree Wright
Warren Finch Wright
Yuan Lung Yeh

Course in Commerce

Alex James Anderson
Willard George Aschenbrener
Harriet Dorothy Bartlett
Howard Hubert Beck
Wayne Izor Beckwith
Charles Rathman Bennett
Elmer Fred Benson
Karl John Benz
Arthur Joseph Bettendorf
Russell Page Blowney
Seymour C. Boardman
Joseph Bridge Bolender
Grace Elizabeth Brewster
Earl Dow Brown
*Dean Albert Buckmaster
Sada Eleanor Buckmaster
Charles McCoy Chapman
Anna Marie Christensen
*Lew Garrison Colt
*Clifford Dewey Conrad
*Allen John Cowie
Kenneth Earl Cristy
John Leslie Curtin
*Irene Lancaster Dahm
Raymond Sylvester Darrenougue
John Richard Degerstedt
*John Shannon Dickens
Arno Viol Dix
Raymond Earl Donohue
*Charles Wetzel Dorries
Francis L. Drew
Newman Leo Dunne
E. Ruth Christensen Estvad
Gordon Gray Fairfield
Carl William Farrell
Nels Kristian Feddersen
*Archibald Hubert Fee
*Joseph George Feldman
Russell Owen Ferguson
Russell Manion Fetter
William G. Fisher
Marion Hesketh Fish
*James Maurice Fitzgibbons
Philip Gorder Fox
Herbert George Freese
Harold Otto Frohbach
Charles Gutenkunst, Jr.
Harry Hankin
Earle William Hardy
*Kathleen Harrison
Addison Haugan
Martin Aloysius Heffernan
Marguerite Mabel Heins
Byron M. Hill
Earl Spencer Hirshheimer
Jennie Louise Hoffman
Emil Hofsoos
Clarence Alexander Hollatz
Norman Herbert Holt
Wilbur Edmund Holtz
Howard Blair Hornaday
Frank Charles Hoyer
Vera Luella Jerg
*Norman Johnson
*Frederick Conway Kellogg
*William Louis Kickhaefer
Clarence Albert King
Lylas Paul Klug
Carl Edwin Klumb
Frank William Kuehl
Harold Heath Lampman
Milo Reese Larson

*Degree conferred since Commencement, 1921.

Carl Henry Laun
Albert Marks Lehr, Jr.
Thomas William Leland
George Jacob Leonhard, Jr.
Hilda Margaret Ley
Robert Brown Lindsay
Richard Joseph Lowenthal
Ernest Ray McCartney
Leo James McCullough
John Jay McKeague
*Stewart McLaren McKinnon
*John Archibald MacLaren
*Grace Klendyll McRae
Victor Irwin Maier
*Gustave B. Mann
Ronald Mattox
Francis Peltier Mayo
Burton Walters Melcher
James Dewey Melvin
Harvey Gustav Meyer
*Allen Hollis Miller
Chester Joseph Miller
*Edward David Mishelow
Lewis William Morrissey
Walter Ralph Neisser
Arthur Tillman Nelson
Dewey Vanard Nelson
Lynn Fields Newell
Herman Christian Nolen
Helen Brunette Olds
Julia Amanda Olesen
Helen Isabel Olson
Frederick Morris Pantzer
William Frederick Peterman, Jr.
Emory Jerome Peterson
Lyell Potter Porter
Paul Wood Porter
James Keith Potter
Herbert Victor Prochnow
Clarence Ramsett
Ronald West Ramsey
*Charles Harold Ray
Helen S. Roth
Henry Burnside Royce
*Ruth Russell
*Carl Henry Rusterholz
William Kenneth Schaab
Paul Schanen
Arno John Schmidt
*Herbert John Schmiege
Edwin Arthur Schoeneberg
*Donald H. Schuette
Charles Floyd Schwartz
Bertha Jane Schwenn
Taylor Hayhurst Seeber
Carl Julius Seifert
Edwin Conrad Severson
Howard Cole Sherman
*Edward Godfrey Silbernagel
Jacob J. Sinagub
Jacob Jay Sinaiko
David William Smith
Don Wheeler Smith
Giles Vance Smith
William Patrick Snow
Lillian Marie Soderberg
Percy George Sollie
Walter Albert Stamm
Carolyn Agnes Statz
Richard Harding Stout
Loyd Morton Strope
Arthur Chandler Taylor
Adolph Otto Teckemeyer
George D. Theisen
Helen Irene Thompson
Earle Jasper Tower
William Edward Walker
Truman Lane Ward
Ralph Emon Weeks
Oscar Arnold Weinke
Lloyd L. Wilder
Anne Edna Wilkinson
Hildegard Amalia Wipperman
Herbert Edward Wolfram
*George Emery Wood
Samuel Clough Wright
Leona Yerly

Course in Journalism

Lurah Blanche Allen
John Gower Baker
Katherine Naudain Beebe
Isabella Curtis Bugbee
William Thurston Comstock
Gerald Robert Coulter
*Dorothy Dee Crook
Henry Charles Dennis
Frances Estelle Holmburg
Paul Allen Holmes

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Chung Shu Kwei
Alice Edythe Lincoln
Walter Otto Look
Carson Fitch Lyman
Dorotha Jean McBride
*Carl Waldemar Maedje
Beatrice Mariquita Morgan
Lawrence William Murphy
Ralph Otto Nafziger
Agnes Louise Noll
*Mildred Alice Nusbaum
Eugenia Langson Plumb
Dorothy Hope Ream
Adolph Casper Regli
Frieda Laura Rummel
Frederick Lewis Sperry
Beth Ardis Stewart
*Helen Tomlinson
Esther Ellen Van Wagoner
Helen Briggs West
*Benjamin Wigder

Bachelor of Philosophy

Normal Course

Esther Fern Ashbrook
Jeanette Bale
Mary Gratiot Bale
Ella Reynolds Boyce
Margaret Annette Bundy
Dora May Davies
Ruth Enckhausen
*Albert John Henkel
William Benjamin Henry
Edward Herman Hinterberg
Viola Elizabeth Barbara Hopkins
Helen Sophia Johnson
*Peter Robert Jost
Agnes Ann Kingston
Alina Marie Lindegren
Harold William Marshall
Lester M. Morrill
Alice Una Murray
Everett Frank Patten
*Ruth Agnes Peterson
Howard Edward Pollock
Harold Hans Postel
Alice A. Quade
*Otto Anton Reetz
Theresa Margaret Reichle
Lenual Smith Riehm
Jean Francis Rolfe
*Neil Hjalmer Rudie
*Carl Frederick Schaub
Guy Harold Smith
Louis Alfred Struck
*Henry Francis Sutton
Mabel Dorothy Vernon
*John Frank Waddell
Henry Carl Wegner
*Charles Ross White
*Dale Paul Williams
Katherine Martha Wilson
*Elizabeth Rose Wise
Esther Bertha Zarling

General Course

Curtis Francis Beste
*Paul Adolph Carlson
*Lawrence Eugene Cunningham
Maurice Eugene Field
William Bowman Florea
*Leo Vincent Gannon
Edwin John Knapp
Clarence Carl Krause
*Otto Philip Lehner
Isadore Arnold Perstein
Hazen Hill Petrie
Frood Paul Smith
†Grace May Stafford
Howard Bailey Stark
Margaret Julia Swift
Glenn Thomas Trewartha

*Degree conferred since Commencement, 1921.
†Degree conferred as of class of 1920.

Bachelor of Science

Chemistry Course

Roy Herman Baechler
Harry Daniel Baernstein
Kenneth John Harwood
Myron Tilman Herreid
Clarence S. Jung
Henriette Christene Liebe
Joseph John Liskovec
Herbert John Lueck
*George Barber Lyons
Edgar DeBolt McCollum
Villiers Wilson Meloche
*George Walter Nash
George Dewey Phillips
Guy Arthur Ramsdell
Emil Gustave Schmidt
Raymond Otto Schmidt
*(Miss) George Louise Schon
Henry Stevens
Arthur Henry Teigen
Bertha A. Voit

Manual Arts Course

Leonard Marvel Hovlid
William Arthur Hughes

Medical Science Course

*Mark John Bach
*Elsa Berger
Edmond Lloyd Bernhardt
John Adolph Bigler
*Thomas Kenneth Brown
*Warner Smith Bump
*Earl Eugene Carpenter
Truman E. Caylor
Burton Martin Clark, Jr.
Isidore Zolmon Davidoff
*Lillian Anna Dobry
Margaret Alice Doerr
*Thomas Joseph Dredge
Richard Donald Evans
John Matthias Feeney
*George Henry Flatz
Sidney Britton Goff
*Richard Jacob Gordon
*Earle Hopkins Hall
*Adolph M. Hansen
Robert Wing Hemingway
Ardis Marie Hess
*Lazarus Herman Horwitz
*Roland Arthur Jacobson
Ernest Lemon Jewell
Harvey Chester Johnson
*Eugene Frederick Kornreich
Ferdinand Richard Krembs
*Frances Victoria Kupperman
Norman F. Laskey
John William Lowe
Russell Howard Miller
Alvah Lay Newcomb
*Olin Paul
*Leo Willis Peterson
Marvin Garfield Peterson
Saul Schapiro
Elias Herman Schlomovitz
Harry Herman Schlomovitz
Herbert Glueck Schmidt
Clair Odin Vingom
Samuel A. Vogel
Frank Laurence Weston

Physical Education Course

Martha Marie Alway
Marion Elizabeth Baldwin
*Bertha Irene Bradley
Kathryn Alice Loose
Charlotte Genevieve MacEwan
*Leila D. Sinaiko
Beulah Worthley Zimmerman

Pharmacy Course

Leo Younker Conney
Frederick Walker Irish
Floyd Cecil Rath

*Degree conferred since Commencement, 1921.

Graduate in Pharmacy

Bernard William Bruss
†Harvey Jerome Burthe
Oscar Herbert Carlson
John Chisholm
Bemrose William Drewry
Leroy Delos Edwards
George Wesley Garland
Gerald Jay Hanson
Glenn Llewellyn Jenkins
Mabel Johnson
Herman August Pagenkopf
Charles Arleigh Parkin
Frieda Ann Pett
Clement Michael Powers
Nels Alvin Silverness
Gunna Magma Smedal
Anton Stucky, Jr.
Benjamin John Thomas
Arthur Hoyt Uhl

SCHOOL OF MUSIC

Bachelor of Music

Josephine Nellie Darrin
Herdis Parker Hanson
Olive Edith Mitchell
Catherine Mary Murray
Thrascilla Ann Powers
Isabelle Emma Quarberg
Alice Marie Sanders
Myra Rebecca Sumption
Doris Wyatt

Graduates from Course for Supervisor of Music

Martha Kuehmsted Chandler
*Harriett Alma Dohr
Anna Marie Dufek
Helen Margaret Gunderson
Lillian Mae Hanan
*Mary Hoppmann
Gladys Mary Knight
Florence Eleanor Kohn
Avis Marian Labisky
*Florence Lampert
Ethel Marie Lemmer
Ethel Beck Moseley
Alma L. Olson
Thrascilla Ann Powers
Vivian Rhodes
Sayda Ernestine Seybold
Mildred Alice Skinner
Esther Lillian Steuber
Mary Elizabeth Tillotson
Gladys L. Wang
Ella Winsor
*Gladys Gertrude Zimmerman

COLLEGE OF ENGINEERING

Bachelor of Science

Civil Engineering Course

Karl Peter Barth
Eugene Frederick Bespalow
Harold W. Billie
Claire Cressey Congdon
Harold Elmer Crider
Albert Edward Cummings
Henry Michael Ford
Scranton Hugh Gregg

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*Certificate granted since Commencement, 1921.

Glen Hudson Gustin
Carl Albert William Henkel
Christian Brun Henrichsen
Elroy Hall Hinkley
Frederick William Krez
Harry Margoles
Karl Christensen Miller
Arthur Oliver Olson
†Arthur Henry Raetzman
Israel Irving Rotter
Francis Herman Schmitt
*Philip Kingsland Schuyler
Willard James Seder
Albert Rollin Striegl
Peter Walraven
Christopher Armin Wiepking
Clarence Ardry Willson

Mechanical Engineering Course

Finn Aanesen
Marshall Bautz
Russell Gardiner Davis
Horace Kieffler Dean
Edward Thomas Donovan
Mervin Obert Flom
Adelbert Paul Gerhardt
Berger Amandus Hagen
Andrew B. Hawkins
Frank Severance Hayes
Alf Ihlen
Burton Egbert James
David Wallace McLenegan
Clarence William Peterson
Howard Merl Posz
Paul William Romig
Paul Anson Royer
Jack Rubenstyne
Norbert James Schaal
Forrest Earnest Smith
Joseph Taylor Strate
Hamilton Dana Taylor
Willis Terhorst

Electrical Engineering Course

Carl John Andersen
Norman Kirk Avery
Donald Ivan Bohn
Richard Wallace Brewer
Harold Hasley Brown
Wade Melvin Edmunds
George James Flatman
Archie H. Gould
Reuben Charles Grimstad
Ralph Eugene Hantzsch
Morris Dunn Jackson
Elmer Dewey Johnson
Clemens Kalvelage
Willard Anthony Kates
Herbert George Lindner
George Williard McCollum
James Francis McManus, Jr.
Harry Irl Miller
Chauncey McGarry Morley
Emil Arthur Mueller
Herbert Julius Muth
Halmer Alfred Peterson
Philip Dunham Reed
Ross Walter Rogers
Charles Thayer Schrage
Gilbert William Schroeder
Kenneth Loyal Scott
Morris Shapiro
Robert Charles Siegel
Helmer Sorenson
Hyman Alfred Sternlieb
Duncan James Stewart

Chemical Engineering Course

Harvey Raymond Broker
*Lyman Everett Buckingham
Ernest Butterman
*Harold Lund Christensen
Frank Herman Cirves
Robert Wesley Cretney
William Ernest Erickson
*Jennings Bryan Hamblen
Raymon Nelson Hawkins
Guerdon Herbert Head
Harold Clark Knapp
*Paul M. Koenecke
Chester Mott Kurtz
Bernard Marion Larsen

*Degree conferred since Commencement, 1921.
†Degree conferred as of the class of 1911.

*Benjamin Lowrie Miller
Malcolm Mitchell
Alvin Eugene Montgomery
Clyde Lester Nash
*Anthony William Pesch
Alvin Frederick Pitzner
*Frederick George Pope
Milton Jackson Shoemaker
Clarence Falk Suhm
Arnold Charles Vobach
Karl Harold Wegner
Oscar B. Westmont
Robert John Zaumeyer

Mining Engineering Course

Walter Leland Albers
*Laurence Hugo Hahn
Jacob Richard Hiestand
Lars Kjar Humel
Howard Golden Hymer
Ralph Louis Jourdan
Marcus William Link
Gustaf M. Lundberg
Louis Russell Mann
Joseph Ashton Roman
Lloyd Milton Scofield
Chen-Ko Tsao
Frederick Stewart Turneaure
Warren Weir Walters

COLLEGE OF AGRICULTURE

Bachelor of Science

Agriculture

Bushrod Warren Allin
Daniel Alvin Anderson
Lawrence Wortendyke Anderson
George Neal Ballantine
James Rolland Ballantine
George William Barbo
Robert McFarland Barlass
Archie Black
Herman Martin Breuer
Wellington Brothers
Oliver M. Burg
Thomas Beverly Caldwell
Pedro Antonio Casis
George Howard Clapp
Thomas Collier Clark
Edwin Henry Daane
Albert James Davidson
Willard Louis Dayton
Edgar George Farrington
Alois Ashley Fix
Russell Elwell Frost
Edward James Gaffney
Philip Wide Gates
Percy DeWitt Gibson
Russell Snow Greenfield
John Anton Hamerski
John Joseph Hanousek
Robert Edwin Hardell
William Platt Hayes
Garold William Heal
Fred Joseph Helgren
*Helmer John Hembre
Gilbert J. Hipke
William Dempster Hoard, Jr.
Paul Erich Hoppe
*Charles Alfred Horne
Harold Arthur Hovde
William K. Howison
Karl Rudolph Icks
Warren Stanway Jacka
Lyman Edson Jackson
Clarence Bernard Jennett
*Dalven Julian
Paul Adolph Kayser
John William Koch
Walter Bernard Koehler
Wabun Clarence Krueger
Julius Edwin Kubler
David Robert Lacey
Arthur William Lade
Clifford Elmer Lampman
Lewis James LaPine
Vern Clayton Leaper

*Degree conferred since Commencement, 1921.

Clifford Harvey Lindberg
James Milner Logie
Melvin Eddy Luther
Thomas Harris McGovran
Glen Wilson McIlroy
Laurence Hazelhurst McKay
Abraham Lincoln McMahon
Gilbert Cottrell Marshall
George Wimpfheimer Martin
Edward Washington Mathews
Emil Alfred Miller
Vern G. Milum
William Kenneth Mitchell, Jr.
Basil Mobley
Robert Lyman Moore
Lawrence E. Murphy
Robert Bruno Neelin
*August Nelson
Uffe Jensen Norgaard
Francis Joseph O'Connell
John Thomas Omernik
Earl Manley Pallett
Alvin S. Peterson
William Henry Pierre
John James Pinney
William Jobse Post
Nathaniel Gifford Preston
Donald Wagener Reynolds
Chester Emil Rieck
*Carl Louis Robinson
Linus Theodore Roehm
Walter John Rummel
Joseph Peter Schaenzer
George Albert Schmidt
Burl Alva Slocum
Melford Irl Smith
Robert George Smith
*Urban Ulysses Smith
Walter Charlie Stauss
Walter Philip Stein
Victor A. Tiedjens
Glenn Dwight Tinkham
Hazel Myrtle Tompkins
Robert Henry Travis
*Harold Alexander Vanderhoff
Stanley Thomas Vaughn
Walter Henry Voskuil
Charles Earl Walsh
Julius Louis Wenstadt
Cecil Everett White
Arthur Raymond Williams
*Guy P. Williams
Archie Andrew Wolf
*Ben F. Zaffke
Robert George Zellmer

Home Economics Course

Mabel Evelyn Allison
Marion Edith Baldwin
Grace Mariette Bemis
Lillian Elsa Bierbauer
Mary Rebecca Bird
Beatrice Bernice Bruhnke
Christene Helene Cappon
Frances Elizabeth Carr
Margaret Jane Chambers
Alice Myrl Chappell
Mildred Elizabeth Chichester
Sarah Elizabeth Cragwall
*Dorothy Louise Dietz
Mary Farnam
Josephine Agnes Foote
*Nellie Forrest
Ethel Marie Gildehaus
Edna Louise Huffman
Ola Esther Johnston
Dorothy Jones
Teresa Marie Kopietz
Gertrude Roth Kowalke
Violet Evelyn Krieger
Katherine Elna Lees
Katheryn Rebecca Leitzell
Elizabeth Frances Ligare
Gretchen Lana Loomer
Margaret Louise Macfadden
Louise Margaretha Marty
*Alice Hazel Mereness
Marie Antonette Metz
Helen Hyacintha Murray
Helen Elizabeth Pearson
*Esther Mildred Robertson
Mary Vangel Russell
Catherine Elizabeth Ryan
Harriett Louise Scofield
Elsie Sell
Mary Josephine Shearer
Helen Julia Sherman
Ida Mary Sichler
Marjorie Six

*Degree conferred since Commencement, 1921.

Helen Smith
Marjorie Strock
*Vera Vivian Tyler
*Ada Van Steenberg
Annette Louise Walker
Leonore Weber
Margaret Wheelock
Myrna White
Myrtle Maja White
Clara Louise Yeomans

Graduate in Agriculture

Amos Boe
Paul E. Bollinger
†Fisk Weld Carlin
Lester I. Legrid
Edmund Philipp Lindow
Kenneth Edward Livingston
Fredric Grant Lupton
Clark McConnell
Robert Charles McCoy
Charles Alexander McGill
Perry Thomas Omdalen
Harry Edwin Sagen
Cyril Kirk Shogren
Charles William Skaife
Albert M. Ternes
Melvin Carl Viste
Frank Emil Wachlin
Clarence Walter Weber
Kenneth Fitch Whitson

Graduate in Home Economics

Harriett McDermott Gordon
Aileen Mendoner Hamilton
Sylvia Vera Marlewski
Dorothy Schmolze
Minnie Octavia Straubel

LAW SCHOOL

Bachelor of Laws

[3] Carl E. Behnke
[2] Laurence John Brody
[1] Roy Fred Burmeister
[3] Emmet Joseph Conley
[1] Arthur Herman Eberlein
[3] Kenneth Philip Grubb
[4] Richard Harrington
Francis Delmar Higson, B.A.
[3] Lyle Newton Jenkins
Ottomar Kloetzner
[1] Clarence Hannibal Knudson
[3] Gilbert Frost Lappley
[3] R. Curtis Laus
[1] Otto Philip Lenher
[1] Elmer William Luecker
[3] Glenn John McWilliams
[3] Robert LeRoy Peters, B.A.
[3] Chester Dee Richardson, B.A.
[3] Harry William Riley
Harry William Robinson
Philip Kyle Robinson, B.A.
Edwin Louis Rosenberg
[3] Herman Roy Salen
Frank John Shannon, B.A.
[1] Ira Otis Slocumb
[4] Stanley Anton Staidl
[1] Cyrus Charles Thieme
Joseph Stafford Trottman, B.A.
[1] John Clement Warner
[3] John Wattawa, B.A.
[3] Sylvester Lawrence Wheeler, B. A.
[3] Kenneth Sidney White
[3] Carl Wilbert
[3] Eugene Ward Winton
Carlyle Barton Wurster

*Degree conferred since Commencement, 1921.
†Certificate granted since Commencement, 1921.
[1] Degree conferred since Commencement, 1921.
[2] Degree conferred January 19, 1921.
[3] Degree conferred March 2, 1921
[4] Degree conferred April 22, 1921.

Certificate

Alfred Stevens Bradford
Earl Francis Buelow, B.A.
Roy Frederick Burmeister, B.A.
Robert E. Curran
Harry Carpenter Dean
Oscar Dinkwitz
Francis Willard Duncan
Arthur H. Eberlein
Leon Francis Foley
Arthur Rolf Foss
Victor Gilbert Gilbertson
Kenneth Philip Grubb
Richard Harrington
Ottomar Kloetzner
Clarence Hannibal Knudson
Spencer Alexander Lucas
Elmer William Luecker
George William McFetridge, B.A.
Donald Moore Perry
James Dahle Peterson, B.A.
Harry William Robinson
Alfred Moore Rogers, B.A.
Edwin Leo Rosenberg
Harry Maurice Rosenblum
Rudolph M. Schlabach, B.S.
Clarence Edward Soderberg
Silas Llewellyn Spengler, B.A.
Stanley Anton Staidl
Robert James Sutherland
Cyrus Charles Thieme, B.A.
Dorothy Walker
Theodore Adolph Waller
John Clement Warner, B.S.

GRADUATE SCHOOL

Master of Arts

Max Henry Albertz, B.A.
Joy Ella Andrews, B.A.
Celine Ballu, B.A.
Paul Burdette Baum, B.A.
George Gordon Bemis, B.A.
Lillian Bissell, B.A.
Anne Marie Bodensieck, B.A.
*William Henry Borden, B.A.
Margaret J. Brandenberg, B.A.
Hazel Anderson Brashear, B.A.
Howard Bovee Briggs, B.A.
Rudolph Frederick Brosius, B.A.
*Maybel Ward Burns, B.A.
*Albert Francis Caldwell, B.A.
*Hugh Albert Cameron, B.A.
Corinne Winnifred Carlson, B.A.
*Frances Graver Chez, B.A.
Thelma Lee Clark, B.A.
*Roscoe Jesse Coats, B.A.
Miriam Augusta Compton, B.A.
Lauretta Bugher Conklin, B.A.
Alice Hargrave Crew, B.A.
*William Robert Davies, B.A.
Helen Emma Davis, B.A.
Herman Julius Deutsch, B.A.
Jennie Grace Dixon, B. A.
Elmo Carlyle Dopkins, B. A.
Annie Lee Duncan, B.A.
Davis Edwards, Ph.B.
*Myrtle Mary Eickelberg, B.A.
Jacob Ulrich Elmer, B.S.
*Edith Josephine Erwin, B.A.
Harry Edward Farnsworth, B.A.
Edna May Feltges, Ph.B.
*Emma Luella Fisk, B.A.
*Elliot Grant Fitch, B.A.
*Allen Bennet Forsberg, B.A.
Mildred Lucile Frazier, B.A.
*Dorothy Genevieve Gardner, B.A.
Augustus Ferdinand Grundler, B.A.
Frank Gregory Hall, B.A.
Bertha Hamilton, B.A.
Jack Harding, B.A.
*Edward Sturtevant Hathaway, B.A.
Edith Haynes, B.A.
Fernande Marie Louise Helie, License es Lettres
Edgar Paul Herman, B.A.
Irene Drost Higgins, B.A.

*Degree conferred since Commencement, 1921.

Rudolph Oscar Hoffman, Ph.C.
John Edward Holmes, B.A.
*Ethel Sue Horton, B.A.
*Mary M. Howard, B.A.
Elizabeth Parker Hunt, Ph.B.
John Huston, B.A.
Everett D. Ivey, B.A.
Sarah Winifred Jennings, B. A.
Dorothy Bates Johnson, B.A.
Gideon Waldemar Kilness, B.A.
Gertrude Phyllis King, B.A.
Arlington Colton Krause, B.A.
Irwin Kjelland Krohn, B.A.
Nellie May Larsen, B.A.
Joseph Thaddeus Law, B.A.
Ven Hai Liu, B.A.
John Watson Logan, B.A.
Katherine Llewellyn MacGarr, B.S.
James Francis McIntyre, B.A.
*Maria Mercedes Manosalva, B.A.
Germaine de Manziarly, B.A.
Louis Taylor Merrill, B.A.
Marion Eleanor Moore, B.A.
Lowell Evan Noland, B.A.
Elvira Otilia Ostlund, B.A.
*Conrado Mercader Paras, B.A.
Norma Lenys Pearson, B.A.
*Frank William Prescott, B.A.
Lucy Mary Puehler, B.A.
Lowell Joseph Ragatz, B.A.
*Marie Isabel Rhomberg, B.A.
*Florence E. Riegel, B.A.
Adolph Karl Rigast, B.A.
Gladys Evelyn Riggs, B.A.
Hugh Leo Riordan, B.A.
Emma Rogers, B.A.
Lucy Ella Rogers, B.A.
*Gerhard Krohn Rollefson, B.A.
Alice Marie Jeanne Salvan, B.S.
*Arthur Schubert, B.A.
Wera Charlotte Schuller, B.A.
Marjorie Du Val Simpson, B.A.
*Sister Mary Lambertina Doran, B.A.
Helen Belle Smith, B.A.
Ralph DeMerit Stiles, B.A.
Louise Luqueer Strang, B.A.
*Olaf K. Thollehaug, B.A.
*Edith Maria Tuttle, B.A.
*Allen George Umbreit, B.A.
Freda Emmert Umbreit, B.A.
*Maude B. Van Cleave, B.A.
*Lyndon C. Viel, B.A.
*Paul Marion Vincent, B.A.
Leonard A. Waehler, B.A.
Mary Josephine Walker, B.A.
Herbert John Weeks, B.A.
Florence Whitbeck, B.A.
Lillian Alice White, Ph.B.
Alva Curtis Wilgus, B.A.
Robert Edward Williams, B.A.
Vira Frances Winchell, B.A.
Grace S. McClure Zorbaugh, B.A.

Master of Science

*Swaminath Subrahmanya Aiyar, B.A.
Harry Gerhardt Anderson, B.S.
*Ernest Hayden Bailey, B.S.
Roland Martin Bethke, B.S.
Ruth Genevieve Bitterman, B.A.
Elbert D. Botts, B.A.
John Edleston Bowstead, B.S.
Rose Bracher, M.S.
Howard Jonathan Brant, B.S.
Ann Gertrude Braun, B.S.
Aubrey Keith Brewer, Ph.B.
Orvin Richard Brunkow, B.S.
Ollie Clifton Bryan, B.S.
Elsie Leona Calkins, B.A.
Felipe Olagner Cevallos, B.Agr.
Paul Sidney Wolverton Conger B.S.
Arthur John Connell, B.S.
Margaret Dorothea Craighill, B.A.
Sheldon James Dickinson, B.S.
Paul Axel Clarence Eke, B.S.
John Merrill Fargo, B.S.
Arthur Cecil Fay, B.S.
*Hurley Fellows, B.S.
Gerald Fonstin Finlay, B.S.
Letcher P. Gabbard, B.S.A.
*Arthur R. Gerhart, B.S.
Arne Christian Gorder, B.S.

*Degree conferred since Commencement, 1921.

Jerome Boley Green, B.S.
*Leon Sherman Greene, B.S.
*Horace Haumerton Harned, M.S.
*Clarence Irving Hendrickson, B.S.
Eugene Davenport Holden, B.S.
*John Donald Jenkins, B.S.
James Hazlitt Jones, B.S.
†Leon Kilby Jones, B.S.
Henry Keller, Jr., B.S.
*Homer Davis Kesten, B.S.
Eleanor Isabel Leslie, B.A.
*Robert W. Leukel, B.S.
Harold Tzecheh Linn
Roger Hawkes Lueck, B.S.
Henry Lunz, B.S.
Mary Myrtle McCalmont, B.S.
*Everett Eugene McQuillen, B.S.
Katherine Martindale, B.A.
*Eric Rexford Miller, B.S.
*Pedro Lecaros Montellano, B. Agr.
Nels Theodore Nelson, B.S.
Lewis Lomax Nettleton, B.S.
Milo Albion Nye, B.S.
Llewellyn Bradley Parsons, B.S.
Glenn Ernest Paxton, B.S.
*Albert David Phillips, B.S.
Roswell Covert Pickett, B.S.
*Julia Harriet Post, B.A.
Stanley E. Sands, B.S.
Albert Lee Schrader, B.S.
Meta Louise Schroeder, B.S.
Clarence Karl Frederick Schubert, B.A.
Pettus Holmes Senn, B.S.
Wilbur Heiser Seubert, B.S.
Erwin George Seybold, B. S.
Paul William Simonds, B.A.
Benjamin Johannes Smit, B.A.
John Vernon Steinle, B.S.
Yang Yu Tang, B.A.
Martin Tosterud, B.S.
*Zen Yun Tsow, B.S.
James Leonard Vickers, B.A.
*Audley Hoffman Ward, B.S.
Paul Warttman, B.A.
†Garvin Daniel Williams, B.S.
Anna Cornelia Wilson, B.S.
Frank C. Wilson, B.S.

Master of Philosophy

Victor Edward Forseth, Ph.B.
*Frederick William Hein, Ph.B.
*Everett Charles Hirsch, Ph.B.
*Ruth Margaret Johnson, Ph.B.
*William F. Roecker, Ph.B.
*Loron Darius Sparks, Ph.B.
*Harry Ellsworth Winner, Ph.B.

Civil Engineer

Manuel Gonzalez, C.E.
George Allen Scarcliffe, B.S.
Henry Whitney Tabor, B.S.

Mechanical Engineer

Curtiss Monroe Barbour, B.S.
Delmar Wood Nelson, B.S.
George Cheney Newton, B.S.
*Benjamin Stephen Spieth, B.S.

Electrical Engineer

Willard Smith Wilder, B.S.

Engineer of Mines

Khoren Leon Hussissian, B.S.

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*Degree conferred since Commencement, 1921.
†Degree conferred January 19, 1921.

Doctor of Philosophy

Oliver Edwin Baker, M.S. *Chevey Chase, Md.*
Columbia University Economics and Geography
Three chapters in land utilization .

Mary Martha Bausch, M.A. *Everett, Pa.*
Pennsylvania College German and Latin
America in German fiction, 1880-1914

Alva Hartley Benton, M.S. *Winnipeg, Canada*
Pennsylvania State College Agricultural Economics and General Economics
Short time farm credit

William Oscar Blanchard, Ph.M. *Oshkosh*
University of Wisconsin Geography and Geology
A geonomic interpretation of the cuesta of Southwestern Wisconsin

Frederick Lincoln Brown, M.S. *Madison*
University of Wisconsin Chemistry and Physics
The thermal chemistry of colloids. II. The heat of coagulation of ferric oxide hydrosol with electrolytes

Clifton Sherwin Corbett, M.A. *Madison*
University of Wisconsin Geology, Petrology and Chemistry
Some hydrous aluminum silicates as schist making minerals

†James Geere Dickson, M.S. *Madison*
University of Wisconsin Botany, Plant Pathology and Agricultural Chemistry
The value of certain nutritive elements in the development of the oat plant, and their relation to the chemical composition of the grain and straw

*Ethel Barbara Dietrich, M.A. *Madison*
University of Wisconsin Economics and Sociology
Collective bargaining in the book and job printing industry

*Alexander Green Fite, M.A. *Long Beach, Cal.*
Vanderbilt University French and Spanish
A study of manuscript 627 of the Berne Library on the epic poem Godfroi de Bouillon

Eloise Gerry, M.A. *Madison*
Radcliffe College Botany and Plant Pathology
Oleoresin production: A microscopic study of the effects produced on the woody tissues of southern pines by different methods of turpentining

Grover Rawle Greenslade, M.A. *Madison*
University of Washington Experimental Physics, Mathematical Physics and Mathematics
The spectral distribution of the energy radiated from metallic surfaces at high temperatures

Theodore Gregory Gronert, M.A. *Prairie du Chien*
University of Wisconsin History and Political Science
The history of the business corporation in the United States previous to 1860

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*Degree conferred since Commencement, 1921.
†Degree conferred January 19, 1921.

*Erwin George Gross, M.S. *Merrimac*
University of Wisconsin Agricultural Chemistry, Physiology and Organic Chemistry
Factors operative in the production of Creatinuria

Joseph Boyd Haley, M.A. *Elberton, Ga.*
University of Wisconsin Greek and Latin
Moods in the Greek papyri

Sarah Van Hoosen Jones, M.S. *Chicago, Ill.*
University of Wisconsin Genetics, Zoology and Animal Husbandry
Studies on inheritances in pigeons. IV. Checks and bars and other modifications of black

Anna Theresa Kitchel, M.A. *Milwaukee*
University of Wisconsin English and Philosophy
Scientific influences in the work of Emile Zola and George Eliot

Alfred E. Koehler, M.S. *Mishicot*
University of Wisconsin Agricultural Chemistry and Physiology
Protein sulfur

*John Harrison Kolb, M.A. *Madison*
University of Chicago Agricultural Economics, Sociology and Economics
Rural primary groups: A study of agricultural neighborhoods

Roland Edward Kremers, B.S. *Nashville, Tenn.*
University of Wisconsin Plant Chemistry and Organic Chemistry
On azulene and other constituents of the volatile oil of milfoil

Helen Mary Langer, M.A. *Chicago, Ill.*
University of Wisconsin French and Spanish
The doctor on the French stage

†Don Divance Lescohier, M.A. *Madison*
Albion College Economics and Sociology
The labor market

*Frank Theodore McFarland, B.S. *Lexington, Ky.*
University of Michigan Plant Pathology and Botany
Studies in the genus claviceps

John Gordon McKay, B.A. *Madison*
University of Wisconsin Economics and Law
The development of highway legislation, finance and policies among the several states, 1890-1921

Donald LeCrone McMurry, M.A. *DeKalb, Ill.*
University of Wisconsin American History and European History
Civil War pensions, 1885-1897

Henry Baldwin Merrill, M.S. *Madison*
University of Wisconsin Chemistry and Physics
The separation of certain acidic oxides with selenium oxychloride

Frank Wilson Parker, B.S. *Madisonville, Ky.*
Alabama Polytechnic Institute Soils and Chemistry

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*Degree conferred since Commencement, 1921.
†Degree conferred January 19, 1921.

Part I. Methods of studying the concentration and composition of the soil solution. Part II. The classification of the soil moisture

*Raymond Burnette Pease, M.A. *Oregon*
Harvard University English Literature and Education
The Saracen in English literature

John Henry Schmidt, M.S. *Madison*
University of Wisconsin Chemistry and Pharmacology
A study of the action of arsenic acid and arsenous chloride upon aniline, and the preparation of phenarsazine oxide and its derivatives

Oscar Clemen Stine, Ph.B. *Madison*
Ohio University Agricultural Economics and Economics
An economic history of wheat production in the United States

Hosmer Ward Stone, M.A. *Kalamazoo, Mich.*
University of Wisconsin Chemistry
The preparation of pure selenic acid, and the determination of the indices of refraction of selenic and selenous acids

*Wilmer Garfield Stover, M.A. *Columbus, Ohio*
Miami University Plant Pathology and Botany
The relation of soil temperature to the development of certain fungous seedling blights of corn

Alvin Strickler, M.S. *Madison*
University of Michigan Physical Chemistry and Organic Chemistry
Studies on electric endosmose

*Walter Thompson, M.A. *Madison*
University of Kansas Political Science and Sociology
The expansion of the federal government through the commerce clause

William John Trautmann, Ph.M. *Madison*
University of Wisconsin Chemistry and Chemical Engineering
On the reduction of certain compounds by means of silicon

Thomas Curtis Van Cleve, M.A. *Malden, Mo.*
University of Missouri European History and American History
A study of the sources of the De Sphaera Mundi of Joannes De Sacrobosco or John Holywood

Walter Wadepuhl, M.A. *New York, N. Y.*
Columbia University German and French
Goethe's Stellung zur französischen romantik

James Herbert Wilson, B.A. *Bethel, Vt.*
Oxford University French and Comparative Literature
La vie poetique de Guillaume d'Orange

*Holbrook Working, M.A. *Tucson, Ariz.*
Cornell University Agricultural Economics and Economics
The effect of price changes upon production and consumption of wheat

Bonney Youngblood, M.S. *College Station, Tex.*
Agricultural and Mechanics College of Texas Agricultural Economics and Economics
An economic study of a typical ranching area on the Edwards Plateau of Texas

*Degree conferred since Commencement, 1921.

HONORARY DEGREES

Master of Arts

Gerhard M. Dahl, Vice President of the Chase National Bank, New York, N. Y.
William Schaus, Smithsonian Institution, United States National Museum, Washnigton, D. C.

Doctor of Science

William Ernest Castle, Professor of Zoology, Harvard University, Cambridge, Mass.
Clyde Stanley McDowell, Commander, United States Navy.

Doctor of Letters

Frederick Jackson Turner, Professor of History, Harvard University, Cambridge, Mass.

GRADUATION HONORS

Honors for Theses

College of Letters and Science

Leslie Edwin Brown — Economics
Tendencies of operating costs for electric railways in the State of Wisconsin

Anna Marie Christensen — Economics
The operation of the railways under the direction of the Railway War Board

Mildred Veronica Dachtler — Economics
Wages and the cost of living in the United States, 1890-1920

Frances Dummer — Philosophy
The effect of suggestion on complex indicators in free association

Clarence Edward Fugina — Political Science
Budgetary reform in the national government of the United States

Frances Ernestine Jenison — History
Development of the public interest in labor controversy

Robert Brown Lindsay — Economics
Helping the dealer sell electric farm power and light plants

Dudley Holmes Meek — Economics
The history of the railroad brotherhoods

Villiers Willson Meloche — Chemistry
The action of selenium oxychloride on cementite

Burr Wendell Phillips — History
Proposals for the adjustment of anglo-colonial relations, 1760-1780

Frances Eugenia Smith — French
Maeterlinck and the modern theories of stage setting

Guy Harold Smith — Geology
The influence of rock structure and rock character upon topography in the driftless area

Lola Ferne White — Latin
Etruria and the Etruscans in Virgil's *Aeneid*

College of Agriculture

Ola Esther Johnson — Home Economics
A bacteriological study of the intestinal flora

STUDENTS

Graduates

Fellows and Scholars

[1]First semester.
[2]Second semester.

Abbey, Gordon Lester — *Appleton*
B.A., Lawrence College — Scholar (Chemistry)

Andressohn, John Carl — *Milwaukee*
M.A., University of Wisconsin — Charles Kendall Adams Fellow in History

[1]Arndt, Louise Bertha — *Albion, Mich.*
B.A., Albion College — Henry Schoelkopf Scholar in German

Beams, Jesse Wakefield — *Belle Plaine, Kan.*
B.A., Fairmount College — Scholar in Mathematics

Beath, Orville Andrew — *Evansville*
M.A., University of Wisconsin — Fritsche Brothers Fellow in Pharmacy

Beye, Elizabeth — *Oak Park, Ill.*
B.S., Lewis Institute — Fellow in Home Economics

Bischoff, Fritz E. — *Milwaukee*
B.S., University of Wisconsin — Scholar in Chemistry

Black, Archie — *Ft. Atkinson*
B.S., University of Wisconsin — Scholar in Agricultural Chemistry

Boyle, Connell — *Madison*
Ph.D., London University — Honorary Fellow in Plant Pathology

Bryan, Ollie Clifton — *Elba, Ala.*
M.S., University of Wisconsin — Fellow in Soils

Buck, Flora — *Omaha, Neb.*
M.A., University of Wisconsin — Alfred Uihlein Fellow in German

Bunyan, Margaret Frances — *Colchester, Conn.*
B.A., Mount Holyoke College — Scholar in Classics

Carroll, Burt Haring — *Madison*
B.Chem., Cornell University — Du Pont Fellow in Chemistry

Case, Harold Clayton M. — *Madison*
M.S., University of Illinois — Honorary Fellow in Agricultural Economics

Clague, Ewan — *Dayton, Wash.*
M.A., University of Washington — Fellow in Economics

Crowe, Mary Eva Wood — *Tulare, Cal.*
B.A., Leland Stanford University — Scholar in History

[1]Davis, Lillian *Hedrick, Iowa*
B.A., Carroll College Carroll College Scholar (History)
Dexter, Emily Smith se *Elroy*
M.A., University of Wisconsin Fellow in Education
Dopkins, Elmo Carlyle *River Falls*
M.A., University of Wisconsin Scholar in Political Science
Dowling, Philip Herschel *Madison*
B.A., University of Wisconsin Scholar in Physics
Duley, Frank Leslie *Columbia, Mo.*
M.A., University of Missouri Honorary Fellow in Soils
Eke, Paul A. C. *Bruce*
M.S., University of Wisconsin
Scholar in Agricultural Economics
Farnsworth, Harry Edward *Ripon*
M.A., University of Wisconsin Fellow in Physics
Fellows, Hurley *Hoff, Oreg.*
M.S., University of Wisconsin Scholar in Plant Pathology
Givens, Meredith Bruner *Des Moines, Iowa*
B.A., Drake University Fellow in Economics
[1]Goodspeed, Helen Crandall se *Penn Yan, N. Y.*
B.S., Columbia University
Fellow in School of Education, Home Economics
*Grimes, Waldo Ernest *Manhattan, Kan.*
B.S., Kansas State Agricultural College Scholar in Economics
Haelsig, Otto Herman *Eudora, Kan.*
B.A., University of Kansas Fellow in Romance Languages
Hahn, Laurence Hugo *Reedsburg*
B.S., University of Wisconsin Scholar in Mining Engineering
Hall, Joseph Alfred *Madison*
B.A., University of Wisconsin
Newport Fellow in Pharmaceutical Chemistry
Hansen, Esther Violet *Omaha, Neb.*
B.A., Vassar College Fellow in Greek
Harper, Horace James *Madison*
M.S., Iowa State College Scholar in Soils
Harrington, Helena Marie *Salix, Iowa*
B.A., Saint Clara College
Saint Clara College Scholar in Mathematics
Hathaway, Lillie Vinal *New Bedford, Mass.*
M.A., University of Wisconsin Albert Trostel Fellow in German
Head, Guerdon Herbert *Platteville*
B.S., University of Wisconsin Fellow in Chemical Engineering
Hinz, Stella M. *Thompson, N. Dak.*
B.A., University of North Dakota
Henry Gund Scholar in German
Hixon, Ralph Malcolm *Crown Point, Ind.*
B.S., Iowa State College
Fritzsche Brothers Fellow in Pharmacy
Hunt, Lydia Elizabeth se *Madison*
B.A., University of Wisconsin Scholar in Mathematics

---

*Appointment, December 1, 1921.

Ingraham, Mark Hoyt — *Brooklyn, N. Y.*
B.A., Cornell University — Fellow in Mathematics
Jamison, Albert Woodward — *Madison*
M.S., Princeton University
Honorary Fellow in Agricultural Economics
Johnston, Ola Esther — *Paducah, Ky.*
B.S., University of Wisconsin
Fellow in Agricultural Bacteriology
Kinne, Constance — *Elkhorn*
B.A., University of Wisconsin — Scholar in Romance Languages
Logan, John Watson — *Elberton, Ga.*
M.A., University of Wisconsin — Adams Fellow in Greek
[1]Logerstrom, Olive Charlotte se — *Beattie, Kan.*
B.S., Kansas State Agricultural College
Fellow in School of Education, Home Economics
Lundberg, Gustaf Maurice — *Superior*
B.S., University of Wisconsin — Fellow in Mining Engineering
Millar, Charles Ernest — *East Lansing, Mich.*
M.S., University of Illinois — Honorary Fellow in Soils
Miller, Harry G. — *Madison*
M.S., University of Wisconsin
Honorary Fellow in Agricultural Chemistry
Moore, John Brooks — *Madison*
M.A., University of Washington
Mary M. Adams Fellow in English
Mott, Rodney L. — *Madison*
M.A., University of Wisconsin — Fellow in Political Science
Mykel, Kathryn C. — *Weyauwega*
B.A., University of Wisconsin — Scholar in American History
Nash, John W. — *Juneau*
M.A., University of Wisconsin — Fellow in European History
Owen, Carroll Hepburn — *Millville, N. J.*
B.A., Cornell University — Albert F. Gallun Fellow in German
*Pesch, Anthony William — *Madison*
B.S., University of Wisconsin
Wisconsin Gas Association Fellow in Chemical Engineering
Preston, Mary Ellen — *Brodhead*
B.A., University of Wisconsin — Scholar in English
Pryor, Margaret — *Austin, Tex.*
M.A., University of Texas — Fellow in Sociology
Ray, Ward L. — *Madison*
M.A., University of Wisconsin — Fellow in Chemistry
Reid, Mary Elizabeth — *Oconomowoc*
B.A., University of Wisconsin — Fellow in Botany
Reinking, Otto August — *Madison*
M.S., University of Wisconsin
Honorary Fellow in Plant Pathology
Richards, Edna Harriet — *Salem, Ohio*
M.A., Columbia University — Charlotte Trostel Fellow in German
Riker, Albert Joyce — *Columbus, Ohio*
M.A., University of Cincinnati — Fellow in Plant Pathology

---

*Appointed December 3, 1921.

Schofield, Lloyd Milton — *Sturgeon Bay*
B.S., University of Wisconsin — Scholar in Mining Engineering

Scott, Inez Gertrude — *Aneta, N. Dak.*
M.A., University of Minnesota — Fellow in Classics

Shear, Sherwood William — *Madison*
M.S., University of Wisconsin
Fellow in Agricultural Economics

Shumway, Eunice Kinney se — *Batavia, Ill.*
B.A., Milwaukee-Downer College — Scholar (Mathematics)

Smith, Paul Tincher — *West Lafayette, Ind.*
M.A., University of Wisconsin — Fellow in American History

Sorenson, Helmer — *Whitefish Bay*
B.S., University of Wisconsin
Scholar in Electrical Engineering

Stearn, Noel Hudson — *Madison*
M.A., Leland Stanford University — Fellow in Geology

Streets, Rubert Burley — *Helena, Mont.*
B.S., Montana State College — Scholar in Plant Pathology

Tamblingson, Wava Beth — *Fort Atkinson*
B.S., University of Wisconsin — Scholar in Home Economics

Tapp, Jesse Washington — *Corydon, Ky.*
B.S. A., University of Kentucky — Scholar in Economics

Walker, Lou V. se — *Madison*
M.A., Columbia University
Fellow in School of Education, Latin

Wright, Stillman — *Berlin*
B.S., Beloit College — Beloit College Scholar (Geology)

Zelson, Louis Gabriel — *Milwaukee*
B.A., Washington University, St. Louis, Mo.
Fellowship in Semitics

Other Graduates

Acton, Hul-Cee Marcus — *Glasgow, Ky.*
M.A., University of Wisconsin — French

Aiyar, Swaminath Subrahmanya — *Bangalore, India*
M.S., University of Wisconsin — Chemistry of Forest Products

Albertz, Hugo William — *Watertown*
M.S., University of Wisconsin — Agronomy

Albertz, Max Henry l — *Watertown*
M.A., University of Wisconsin — Economics

Alford, Pauline — *Duluth, Minn.*
B.A., Oberlin College — Botany

Altmeyer, Arthur Joseph — *Madison*
M.A., University of Wisconsin — Economics

Anderson, Charles Joseph se — *Madison*
Ph.B., University of Wisconsin — Education

Anderson, Esther Sanfrieda — *Lincoln, Neb.*
M.A., University of Nebraska — Geology

Anderson, John Arlington — *Racine*
B.S., University of Wisconsin — Agricultural Chemistry

Andrews, Andrew Irving — *Oshkosh*
B.S., University of Wisconsin — Chemistry
Aquino, Eustaquio Genero — *Pamplona, Cagayan, P. I.*
M.A., Yale University — Agricultural Economics
Armentrout, Walter Edwin — *Linville Depot, Va.*
M.A., University of Kentucky — Mathematics
Armstrong, Martha Christena — *Princeville, Ill.*
B.A., Northwestern University — History
Aull, Marguerite — *Chattanooga, Tenn.*
B.A., University of Chattanooga — English
Babcock, Rodney Whittemore — *Madison*
M.A., University of Wisconsin — Mathematics
Baber, Ray Erwin — *Concordia, Kan.*
M.A., University of Wisconsin — Economics
Bacon, Frances Fairchild — *Madison*
B.A., University of Wisconsin — Economics
Bahadur, Mohindra — *Hyderabad, India*
B.A., Punjab University — Genetics
Bailey, Ernest Hayden — *Madison*
B.S., University of Wisconsin — Soils
Baker, Edith Sumner — *Hyannis, Mass.*
B.A., Wellesley College — Economics
Baker, John Gower — *St. Croix Falls*
B.A., University of Wisconsin — Journalism
Ballantine, George Neal se — *Bloomington*
B.S., University of Wisconsin — Agricultural Education
Ballantine, James Rolland — *Bloomington*
B.S., University of Wisconsin — Animal Husbandry
Barnhardt, Luther Wesley — *Concord, N. C.*
B.A., Trinity College — History
Barnwell, George Francis — *Vancouver, B. C., Canada*
B.A., University of British Columbia — Geology
Bartholomew, Robert Percival — *Sunbury, Pa.*
B.S., Pennsylvania State College — Soils
Bausch, Mary Martha — *Madison*
Ph.D., University of Wisconsin — German
Beaver, Howard Tichenor — *Trinidad, Colo.*
B.A., William Jewell College — Political Science
Beecroft, Lillian Jane — *Madison*
B.L., University of Wisconsin
Benell, Otto Earl m — *Fort Collins, Colo.*
B.S., Colorado Agricultural College — Bacteriology
Bennett, Donald Menzies — *Madison*
B.A., University of Wisconsin — Physics
Bethke, Roland Martin — *Elkhart Lake*
M.S., University of Wisconsin — Agricultural Chemistry
Bewick, Grace Beatrice — *Madison*
M.A., University of Wisconsin — Economics
Beyer, Adelbert John — *Milwaukee*
M.A., University of Wisconsin — History
Biemiller, Lawrence E. — *Baltimore, Md.*
B.E., Johns Hopkins University — Chemical Engineering

Bigelow, Marian Elizabeth — *Brocton, N. Y.*
B.S., St. Lawrence — History
Binney, Thomas Henry se — *Madison*
B.S., University of Wisconsin — Dairy Husbandry
Bishop, Lawson Waterman — *Madison*
B.A., University of Wisconsin — Economics
Black, Ruby Aurora — *Madison*
B.A., University of Texas — Economics
Blampin, Wilfrid Ellis — *Montreal, Quebec, Canada*
B.A., McGill University — English
Blanchard, John David — *Madison*
B.A., Cornell University — Economics
Blanco, Galo Wenceslao — *Madison*
M.S.. University of Michigan — Chemistry of Forest Products
Block, Martha Helene — *Madison*
Ph.B., University of Chicago — Political Science
Blood, Forrest Clifford — *Milwaukee*
M.A., De Pauw University — Economics
Blough, Carman George — *Decatur, Ill.*
B.A., Manchester College — Economics
Blough, Jacob Ray — *Decatur, Ill.*
B.A., Manchester College — Economics
Bohlman, Herbert William — *South Kaukauna*
B.A., Lawrence College — Economics
Bornman, Charles John. — *London*
B.D., Moravian Theological Seminary — Agricultural Economics
Botts, Elbert Dysart — *Springfield, Mo.*
M.S., University of Wisconsin — Chemistry
Boydell, Harry Cyril — *Melbourne, Australia*
B.S., University of New Zealand — Geology
Boyden, Alan Arthur — *Madison*
B.A., University of Wisconsin — Zoology
Bradbury, Dorothy — *Topeka, Kan.*
B.A., University of Wisconsin — Botany
Brandenburg, Samuel Jacob — *Oxford, Ohio*
Ph.M., University of Chicago — Economics
Bray, Mark Wilder — *Madison*
M.S., University of Minnesota — Chemistry
Brewer, Aubrey Keith — *Richland Center*
M.S., University of Wisconsin — Chemistry
Brewster, Grace Elizabeth — *Madison*
B.A., University of Wisconsin — Commerce
Brooks, John — *Boston, Mass.*
B.A., Harvard University — Spanish
Brossard, Eugene Edward, Jr. — *Madison*
B.A.. University of Wisconsin — Geology
Brown, Charlotte Kirshmer — *Kansas City, Mo.*
B.A., Oberlin College — Home Economics
Brown, Earl Dow — *Madison*
B.A., University of Wisconsin — Geology
Brown, Grant Houston — *DeKalb, Ill.*
B.A., University of Wisconsin — Economics

Brown, Lydia Lawrence — *Chicago, Ill.*
B.A., Vassar College — History
Brown, Ralph Hall — *Ayer, Mass.*
B.S., University of Pennsylvania — Geography
Brown, Thomas Kenneth m — *Waupun*
B.S., University of Wisconsin — Medical Bacteriology
Brunkow, Orvin Richard — *Darlington*
M.S., University of Wisconsin — Agricultural Chemistry
Brunquist, Ernest Herman — *Madison*
M.A., University of Michigan — Pharmacology
Bryan, Kenneth Victor — Stillwater, Okla.
B.S., Oklahoma Agricultural and Mechanical College — Dairy Husbandry
Buchanan, Lulu Ellen — *Monmouth, Ill.*
B.A., Monmouth College — Education
Bunyan, Leonidas Hamlin — *Colchester, Conn.*
B.S., Wesleyan University — Mathematics
Burgess, Elizabeth Clark — *Milwaukee*
B.A., Oberlin College — Home Economics
Burke, Mead — *Madison*
B.A., University of Wisconsin
Burns, Helen Ann se — *Madison*
B.S.A., University of Nebraska — Education
Burrows, Robert Newton — *Nacogdoches, Tex.*
M.A., University of Wisconsin — Agricultural Economics
Butler, Bishop Ormand — *Madison*
B.S., New Mexico Agricultural College — Animal Husbandry
Calderwood, Howard N., Jr. — *Madison*
B.S., University of Kansas — Chemistry of Forest Products
Caldwell, Margaret Adeline — *Salt Lake City, Utah*
B.A., University of Utah — Speech
Calvert, Charlotte Joslin m — *Madison*
B.A., University of Wisconsin — Anatomy
Carns, Marie Louise m — *Knoxville, Ill.*
B.A., University of Wisconsin — Anatomy
Carver, William Angus — *Fairforest, S. C.*
B.S., South Carolina Agricultural and Mechanical College — Genetics
Cary, Myra Treat — *Madison*
M.A., University of Wisconsin — Journalism
Cevallos, Felipe Olagner — *Guinobatan, Albay, P. I.*
M.S., University of Wisconsin — Animal Husbandry
Chambers, Ernest Leslie — *Seville, Ohio*
B.S., Ohio State University — Economic Entomology
Chandler, George Anthony — *Madison*
B.S., University of Wisconsin — Economics
Chang, Nien Yuan — *Chili, China*
B.S., University of Nanking, China — Agricultural Economics
Chapman, Charles McCoy — *Madison*
B.A., University of Wisconsin — Economics
Chapman, Jesse Max — *Tomah*
B.A., Lawrence College — History

Chase, Ruth Wayland — *Madison*
M.A., University of Wisconsin — Zoology
Chen, Ko-Kuei m — *Shanghai, China*
B.S., University of Wisconsin — Medicine
Chi, Chin-Chow — *Kiangsu, China*
B.A., Peking National University — Political Science
Chiao, Wan Hsuan — *Shansi, China*
B.A., University of Wisconsin — Economics
Child, William Clark — *Oberlin, Ohio*
B.A., Oberlin College — Chemistry
Chow, Ching Shu — *Peking, China*
Graduate, Peking Technical College — Chemistry
Chu, Ting Oo — *Shanghai, China*
B.A., Geological Institute, Peking — Geology
Cirves, Frank Herman — *Madison*
B.S., University of Wisconsin — Economics
Clark, Alice Schiedt — *Madison*
B.A., Bryn Mawr College — Bacteriology
Clark, Stella — *Madison*
B.S., Ohio Wesleyan University — Industrial Education and Applied Arts
Clark, Willis Henry — *Madison*
M.S., University of Michigan — Chemistry
Cleveland, Stanley Matthew — *Madison*
B.A., University of Virginia — Physics
Cline, Jean Marie — *Philadelphia, Pa.*
B.A., Wellesley College — History
Clugston, Phil R. — *Madison*
M.A., University of Wisconsin — English
Cockrell, Frank Parsons — *Madison*
B.S., Northwestern University — Economics
Coke, Joseph — *Guelph, Canada*
B.S., Toronto University — Agricultural Economics
Colbert, Roy Jefferson — *Madison*
B.A., DePauw University — Economics
Colvin, Hardwick Joyner — *Dubach, La.*
B.S., Louisiana State University — Agricultural Economics
Conover, Frederic LeRoy — *Madison*
B.A., University of Wisconsin — Chemistry
Conrad, Agnes m — *Madison*
M.S., University of Wisconsin — Medicine
Cooper, Eugene — *Madison*
B.S., Purdue University — Engineering
Cramer, Charles S. — *Madison*
B.S., Missouri State Teachers College — Agricultural Education
Crandall, Ada Elizabeth — *Milton*
M.A., University of Wisconsin — Romance Languages
Crawford, Alma E. — *Ottawa, Ill.*
B.A., Northwestern University — Mathematics
Crawford, Lewis William — *Syracuse, N. Y.*
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Culver, Lucian Glenn m — *Eau Claire*
B.A., University of Wisconsin — Pathology

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Dahlberg, Arthur Olaus — *Madison*
B.S., University of Michigan — Economics
Davis, Harold Thayer — *Madison*
M.A., Harvard University — Mathematics
Davis, James Elmer — *Madison*
M.A., University of Wisconsin — Mathematics
Davis, Nora A. — *Pima, Ariz.*
B.A., Brigham Young University — English
Davis, Ray J. — *Provo, Utah*
B.S., Brigham Young University — Plant Pathology
Davis, William Harold — *Madison*
M.A., University of Wisconsin — Genetics
Davis, William Lloyd — *Madison*
Ph.B., University of Wisconsin — Economics
Dawley, Robert Worthington — *Rutherford, N. J.*
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Day, Alice Marie — *St. Louis, Mo.*
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Degerstedt, John Richard — *Barron*
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M.A., University of Wisconsin — History
Dexter, Elise Forsythe — *Madison*
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Dickinson, Sheldon James — *Dundee, Ill.*
M.S., University of Wisconsin — Chemistry
Dietzman, William Paul se — *Richland Center*
B.A., University of Wisconsin — Education
Dittmer, Clarence Gus — *Augusta*
M.A., University of Wisconsin — Economics
Dix, Arno Vial — *Port Washington*
B.A., University of Wisconsin — Economics
Dorau. Hubert Benjamin — *Fond du Lac*
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Douglas. James Lee l — *Madison*
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Dow, Jean — *Omaha, Nebr.*
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Dow, Odessa Della — *Manhattan, Kans.*
B.S., Kansas State Agricultural College — Agricultural Chemistry
Drake, Eugene Tolman — *Auburn, N. Y.*
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Draper, Bernice Evelyn — *Loyal*
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Drebert, Ernest — *De Forest*
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Dreps, Joseph Antone — *Tomah*
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Dunstan, Robert Taylor — *Windsor, N. C.*
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Dunton, Leila Elisabeth — *Manhattan, Kans.*
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Durant, Augustus Lowry — *Cottageville, S. C.*
B.S., Clemson College — Animal Husbandry

Duwe, Henry J. — *Middleton*
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Eaton, Howard Ormsby — *Madison*
B.A., University of Wisconsin — Philosophy

Edmunds, Charles Wesley — *Manistique, Mich.*
M.D., University of Michigan — Psychology

Edwards, Wilmer Charles m — *Marion*
B.A., University of Wisconsin — Medicine

Eggleston, George K. — *Dallas*
B.A., Lawrence College — History

Eickelberg, Myrtle Mary — *Milwaukee*
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Eldridge, John A. — *Madison*
B.A., Wesleyan College — Physics

Elvehjem, Oswald Milton — *Madison*
B.A., Luther College — Economics

Emerson, Louise Lindsley — *Baker, Mont.*
B.A., University of Wisconsin — History

Emmons, Richard Conrad — *Vancouver, B. C., Canada*
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Engel, Martha — *Madison*
B.A., University of Wisconsin — Botany

Ericksen, Leyden N. — *Minneapolis, Minn.*
B.S., University of Minnesota — Chemistry

Evans, Nevada Sutherland — *Spooner*
M.A., University of Minnesota — Plant Pathology

Fang, Tommy Hsuin — *Tung Chen Hsien, China*
B.A., University of Nanking — Philosophy

Fanselow, John Ray — *Perry, Iowa*
M.S., University of Chicago — Chemistry

Fargo, John Merrill — *Madison*
M.S., University of Wisconsin — Animal Husbandry

Farmer, Hallie — *Anderson, Ind.*
B.A., Indiana State Normal — History

Feldman, Joseph George — *Madison*
B.A., University of Wisconsin — Economics

Feltges, Edna May — *Peoria, Ill.*
M.A., University of Wisconsin — Mathematics

Fetrow, Ward Willard — *Haddam, Kans.*
B.S., Kansas State Agricultural College — Agricultural Economics

Fischer, Warren Charles — *Two Rivers*
B.A., University of Wisconsin — Geology
Fish, Norman Sheffield — *Columbus, Ohio*
B.S., Ohio State University — Agricultural Engineering
Fisher, Elizabeth Mildred — *Madison*
B.A., University of Wisconsin — Romance Languages
Fisher, Ernest McKinley — *Madison*
B.A., Coe College — Economics
Fisk, Emma Luella — *Madison*
M.A., University of Wisconsin — Botany
Fleck, Louis Carl — *Madison*
B.S., University of Wisconsin — Chemistry of Forest Products
Flippin, Thomas Joseph, Jr. — *St. Helens, Oregon*
B.S., Oregon Agricultural College — Agricultural Engineering
Flom, Mervin Obert — *Madison*
B.S., University of Wisconsin — Mining Engineering
Fluke, Charles Lewis — *Madison*
M.S., University of Wisconsin — Economic Entomology
Fogo, Isabel Young — *Evansville*
B.A., University of Wisconsin
Foley, James Owen — *Corvallis, Oregon*
M.S., Oregon Agricultural College — Zoology
Forster, George F. — *Macon, Ga.*
M.A., University of Wisconsin — Zoology
Fossum, Peter Even — *Meriden*
B.A., St. Olaf College — Physics
Frazier, William Carroll — *Madison*
B.S., University of Wisconsin — Agricultural Bacteriology
French, Robert Calvin — *Hastings, Nebr.*
B.A., Amherst College — Chemistry
Frevert, Harold William — *Odebolt, Iowa*
B.S., Iowa State College — Chemical Engineering
Frey, John Weaver — *Madison*
B.S., University of Chicago — Geology
Frick, Carl Emmit — *Akron, Ohio*
M.A., Ohio State University — Chemistry
Froehlke, Adolph William — *Neenah*
B.S., University of Arizona — Chemistry of Forest Products
Frost, Russell Elwell — *Madison*
B.S., University of Wisconsin — Agricultural Bacteriology
Frye, Miriam Louise l — *Madison*
B.A., University of Wisconsin — Economics
Fulcher, Paul Milton — *Mddison*
M.A., Harvard University — English
Fuller, Howard Hastings — *Madison*
B.S., University of Wisconsin — Electrical Engineering
Furbish, Dorothy Reed wis — *Cambridge, Mass.*
B.A., Smith College
Gabbard, Letcher P. — *Rockford, Ky.*
M.S., University of Wisconsin — Agricultural Economics
Gangstad, Ida Marie — *Deerfield*
B.A., University of Wisconsin

Garwood, Ruth E. — *Salem, Ohio*
M.A., University of Wisconsin — Romance Languages
Gauger, William Henry — *Madison*
B.Chem., Cornell University — Chemistry
George, Vincent Columbus — *Madison*
B.S., University of Nebraska — Mechanical Engineering
Gibbon, Martha Gladys — *Madison*
B.A., University of Wisconsin — English
Glass, James LeRoy — *Sun Prairie*
M.A., Northwestern University — Agricultural Economics
Godfrey, George Harold — *Madison*
M.S., Iowa State College — Plant Pathology
Godshall, William Vernon — *Madison*
B.S., University of Chicago — Physiological Chemistry
Goodstone, Samuel Bernard m — *Pittsburgh, Pa.*
B.A., Harvard University — Medicine
Grabow, Rudolph H. — *Madison*
B.S., University of Minnesota — Chemistry of Forest Products
Graul, Edward John — *Madison*
M.S., University of Wisconsin — Soils
Green, Jerome Boley — *New York, N. Y.*
M. S., University of Wisconsin — Physics
Green, Louise Allen — *Washington, D. C.*
Ph.B., University of Chicago — Economics
Greenleaf, Charles Hunt — *Madison*
M.A., University of Wisconsin — Romance Languages
Gregg, Mabel Josephine — *Madison*
B.A., University of Wisconsin — Zoology
Griffith, Rachel Mary — *Madison*
B.M., University of Illinois — Music
Griswold, Louise — *Springfield, Ill.*
B.A., Oberlin College — English
Grundler, Augustus Ferdinand — *Madison*
M.A., University of Wisconsin — Romance Languages
Gunderson, Eugene Carl — *Fennimore*
B.A., St. Olaf's College — Economics
Gunn, Ada Kathryn — *Ottawa, Kans.*
B.A., Ottawa University — English
Gyland, Stephen P. m — *Barron*
B.A., St. Olaf's College — Anatomy
Haake, Alfred Paul — *Madison*
M.A., University of Wisconsin — Economics
Haentzschel, Adolph Theodore — *Madison*
B.A., Concordia Seminary — Philosophy
Haines, Louis Benjamin — *Cuba, N. Y.*
M.S., Syracuse University — Chemistry
Hale, Edward Everett — *Waco, Tex.*
B.A., University of Texas — Economics
Hall, Edward Bennington — *Springfield, Mo.*
B.S., Drury College — Chemistry
Hall, Esther Marguerite — *Franklin, Ind.*
B.A., Franklin College — History

Hall, Frank Gregory — *Milton*
M.A., University of Wisconsin — Zoology
Halsey, Olga Spencer — *New York City, N. Y.*
M.A., Wellesley College — Economics
Halverson, Donald L. — *Madison*
M.A., University of Wisconsin — Romance Languages
Hampton, Harold Clark — *Madison*
M.A., Leland Stanford University — Botany
Hanger, Wallace Edwin — *Columbus, Ohio*
B.S.A., Ohio State University — Agronomy
Hankinson, Hazel Irene — *Madison*
B.A., Lawrence College — Journalism
Harker, Myra Susan — *Madison*
B.A., University of Wisconsin — Speech
Hartwig, Ernest Herman — *Madison*
M.S., Purdue University — Chemical Engineering
Hawkins, Pliny Hanie — *Madison*
M.S., Montana Agricultural College — Botany
Hay, Donald Leith — *Milwaukee*
M.S., University of Wisconsin — Physics
Hayden, Margaret Camilla — *Madison*
M.A., University of Wisconsin — Mathematics
Hayden, Mary Marella — *Madison*
Ph.M., University of Wisconsin — History
Hayes, William Platt — *Asheville, N. C.*
B.S., University of Wisconsin — Economics
Heal, Garold William — *Marshfield*
B. S., University of Wisconsin — Animal Husbandry
Heddle, John Ronald — *Racine*
B.A., University of Wisconsin — Botany
Hench, Josephine Stuart — *Appleton*
B.A., Lawrence College — History
Hendrickson, Clarence Irving — *Madison*
B.S., University of Wisconsin — Agricultural Economics
Henke, Harold Eugene m — *Baraboo*
B. A., Carroll College — Medicine
Henningsen, Carleton — *Oakfield*
B.S., University of Wisconsin — Chemistry of Forest Products
Hermes, Charlotte Jeane — *Racine*
B.A., Carroll College — History
Herreid, Myron Tilman — *Blair*
B.S., University of Wisconsin — Chemistry
Herrold, Lloyd Dallas — *Madison*
B.A., University of Wisconsin — Economics
Hertzman, Alrick Brynhjolf — *Ashland*
B.A., Gustavus Adolphus College — Medicine
Heubner, Bernard Philip se — *Galesburg, Ill.*
B.A., Knox College — Education
Hickey, Philip John — *Madison*
M.S., University of Wisconsin — Chemistry
Hieber, Dorothy Barbara — *Utica, N. Y.*
B.A., Cornell University — Home Economics

Holden, Eugene Davenport — *Madison*
M.S., University of Wisconsin — Agronomy
Hoppert, Carl Arthur — *Sheboygan*
B.S., University of Wisconsin — Agricultural Chemistry
Horton, George William — *N. Henderson, Ill.*
B.S., Illinois Wesleyan University — Physics
Householder, Fred Clinton — *Fargo, N. Dak.*
B.A., University of Kansas — Mathematics
Hsiung, Cheng-Chin — *Nanchang, Kiangsi, China*
B.S., Cornell Unversity — Speech
Hubbard, Lucille Marie — *De Soto*
B.A., University of Wisconsin — Philosophy
Hubert, Ernest Everett — *Madison*
M.S., University of Montana — Plant Pathology
Humiston, Beatrice Hayden — *Madison*
B.A., University of Wisconsin — Speech
Humphrey, Clarence John — *Madison*
B.A., University of Nebraska — Plant Pathology
Hutton, Margaret Isabel — *Madison*
B.S., University of Wisconsin — Home Economics
Hymer, Howard Golden — *Lancaster*
B.S., University of Wisconsin — Mining Engineering
Irwin, Alta Eloise — *Madison*
B. of Education, Illinois State Normal — Economics
Irwin, Harold Speer — *Britton, Okla.*
B.S., Iowa State College — Agricultural Economics
Jacka, W. Stanway — *Mineral Point*
B.S., University of Wisconsin — Animal Husbandry
James, Howard Turnbull — *Vancouver, B. C.*
B.S., University of British Columbia — Geology
Jargo, Rudolph Alexander — *Deerfield*
B.A. Luther College — Political Science
Jenkins, John Donald — *Portland, Oregon*
M.S., University of Wisconsin — Chemistry
Jennings, Sarah Winifred — *Dallas Center, Iowa*
M.A., University of Wisconsin — Classics
Jerome, Gladys S. — *Madison*
M.A., University of Wisconsin
Jerome, Harry — *Madison*
Ph.D., University of Wisconsin — Economics
Johannesen, Rolf Thorleif — *Delavan*
B.A., University of Wisconsin — History
Johnson, Elmer Harrison — *Acequia, Idaho*
B.S., Missouri State Normal School — Geology and Geography
Johnson, George Fiske — *Powell, Ohio*
B. S., Ohio State University — Agricultural Economics
Johnston, Mildred Lyne — *Fort Atkinson*
B.A., University of Wisconsin — French
Johnstone, Mary Cecilia — *Madison*
B.S., University of Wisconsin — Agricultural Journalism
Jome, Hiram Leonard — *Sawyer*
M.A., University of Wisconsin — Economics

Jones, Edith K. Seymour — *Madison*
M.S., University of Wisconsin — Music
Jones, James Hazlitt — *Spring Green*
M.S., University of Wisconsin — Agricultural Chemistry
Jones, Leon Kilby — *Seattle, Wash.*
M.S., University of Wisconsin — Plant Pathology
Jordan, Brady R. — *Madison*
B.Litt., Princeton University — Romance Languages
Julian, Dalven — *Mineral Point*
B.S., University of Wisconsin — Animal Husbandry
Julien, Arlie Paul — *Yeoman, Ind.*
B.A., DePauw University — Chemistry
Karow, Edna Cornelia — *Madison*
B.A., University of Wisconsin — History
Keebler, Irvin W. — *Madison*
B.S., University of Wisconsin — Chemistry
Keister, Mary Lee — *Huntington, W. Va.*
B.A., Hollins College, Va. — Philosophy
Keller, Henry, Jr. — *Bellefonte, Pa.*
M.S., University of Wisconsin — Agricultural Economics
Kenyon, Walter Alexander — *Madison*
B.A., Milton College — Zoology
Kesten, Homer Davies m — *Madison*
M.S., University of Wisconsin — Physiological Chemistry
Khoorshid, Ardeshir — *Secunderabad, Deccan, India*
B.A., University of Bombay — Genetics
King, Florence Mary — *Lacon, Ill.*
B. S., University of Illinois — Home Economics
King, Ruth Blakely — *Greenfield, Ind.*
B.A., Indiana University — Latin
Kirchner, Alberta Edna se — *Fountain City*
B.A., Milwaukee Downer College — Physical Education
Klein, Michael William — *Appleton*
B.A., Lawrence College — Chemistry
Knapp, Edwin John — *Hales Corner*
Ph.B., University of Wisconsin — Physics
Knight, Charles Clyde — *Greene, Iowa*
B.S., Coe College — Agriculture
Knoll, Waldemar Arthur — *Milwaukee*
B.S., University of Wisconsin — Mining Engineering
Knudsen, Milton Herman — *Provo, Utah*
M.S., Iowa State College — Animal Husbandry
Koch, John Ralph — *Janesville*
B.S., University of Wisconsin — Chemistry
Koehler, Alfred Edward m — *Manitowoo*
Ph.D., University of Wisconsin — Medicine
Koehler, Glenn — *Madison*
B.S., University of Illinois — Electrical Engineering
Krause, Arlington Colton — *Green Bay*
M.A., University of Wisconsin — Chemistry
Kremers, Laura Ruth — *Madison*
B.A., University of Wisconsin — Horticulture

Kreutz, George Charles m	*La Crosse*
B.A., University of Wisconsin	Pathology
Kurtz, William Jennings	*East Lansing, Mich.*
B.S., Michigan Agricultural College	Agricultural Economics
Kwei, Chung Shu	*Szechuan, China*
B.A., University of Wisconsin	Political Science
Langdon, Grace Elizabeth	*Madison*
B.S., Elmira College	Journalism
Langmade, Ruth	*North Baltimore, Ohio*
B.A., Wells College	History
Larson, Alfred	*Wausau*
B.A., University of Wisconsin	Agricultural Bacteriology
Lasley, Robert Law	*Wentworth, N. C.*
M.A., University of North Carolina	English
Laub, Carl Herbert	*Terre Haute, Ind.*
B.A., De Pauw University	History
Lauterbach, Charles Edward se	*Bushnell, Ill.*
B.A., Iowa Wesleyan College	Education
Law, Joseph Thaddeus	*Springfield, Mo.*
M.A., University of Wisconsin	Political Science
LeClair, Marie L.	*Madison*
B.S., University of Wisconsin	Home Economics
Lee, Virgil Porter	*O'Brien, Texas*
M.A., University of Texas	Economics
Leiser, Frederick Oscar	*Madison*
M.A., University of Wisconsin	Economics
Leland, Thomas William	*Oshkosh*
B.A., University of Wisconsin	Economics
Lemm-Marugg, Carl	*Madison*
B.A., University of Wisconsin	History
Lepkovsky, Samuel	*Kenosha*
B.S., University of Wisconsin	Agricultural Chemistry
Lerch, William	*Hollandale*
B.S., Beloit College	Chemistry
Leukel, Robert Whitmer	*Brillion*
B.S., University of Wisconsin	Plant Pathology
Lewis, Clare Louise	*Wooster, Ohio*
B.A., Western Reserve University	Economics
Lewis, Glenn Marcus	*Minneapolis, Minn.*
B.A., University of Minnesota	English
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M.S., University of Utah	Chemistry
Leyland, Herbert Thompson	*Dayton, Ohio*
LL.B., University of Cincinnati	History
Lichty, Esta Marie	*Falls City, Nebr.*
B.A., Ashland College	Romance Languages
Liebig, Pauline Gottsleben	*West Bend*
B.A., University of Wisconsin	History
Lindberg, Clifford Harvey se	*Soperton*
B.S., University of Wisconsin	Agricultural Education
Lindgren, Alina Marie	*Superior*
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Linn, Harold Tzecheh — *Tientsin, China*
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McCarthy, Margaret Mary — *Mellen*
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McConnell, David Francis — *Madison*
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McCracken, Harlan Linneus — *Madison*
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McCrory, John Raymond se — *Fond du Lac*
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McDonald, Blanche Lois — *Beaver Dam*
B.S., University of Wisconsin — Romance Languages
McDonald, Helen Esther — *Anderson, Ind.*
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Riker, Olive Marie se	*Columbus, Ohio*
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Robbins, Louise Falk	*Madison*
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Rouse, Glenn Francis	*Washington, Iowa*
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Rowland, Ben Wright	*Boulder, Colo*
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Rummell, Leo Leonard	*Madison*
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Russell, Mary Vangel se	*Madison*
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Schmidt, Emil Gustave — *Osceola*
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Schmitz, Henry Lenzen m — *Chicago, Ill.*
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Schneller, Edwin Jacob m — *Prairie du Sac*
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Scholtz, Theodore Livingston — *Madison*
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Scott, Eleanor Bryce — *Moline, Ill.*
M.A., University of Illinois — English
Scott, Kenneth Loyal — *Madison*
B.S., University of Wisconsin — Electrical Engineering
Sell, Mariana Theresa — *Madison*
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Sharp, Fern Eugene l — *Edgewood, Iowa*
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Sharpe, Robert Boies — *Greenwich, N. Y.*
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Shen, Leo — *Cheng-tu, China*
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Sherman, John Harvey — *Madison*
B.A., Cornell University — Economics
Shiels, Kenneth Grinnell — *Madison*
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Shout, Leland Morton — *Kansas City, Mo.*
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Showalter, Amos Martin — *Harrisonburg, Va.*
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Simons, Grace Elizabeth — *Madison*
B.A., University of Wisconsin — Physical Education
Simpson, Donald Little — *Oberlin, Ohio*
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B.A., Ripon College — Education
Sinagub, Jacob J. — *Madison*
B.A., University of Wisconsin — Commerce
Singer, Fred John — *Seattle, Wash.*
E.E., University of Washington — Electrical Engineering
Sister Timothy — *Madison*
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Slagg, Charles Mervyn — *Madison*
M.S., University of Wisconsin — Plant Pathology
Slichter, Louis Byrne — *Madison*
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Smit, Benjamin Johannes — *Reitz, Orange Free State, S. Africa*
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Smith, Amy Hoyt — *Madison*
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Ph.B., University of Wisconsin — Geology and Geography
Smith, Harvey McKinley — *Madison*
B.A., Ohio Wesleyan University — Zoology
Smith, Helen Belle — *Madison*
M.A., University of Wisconsin — Romance Languages
Smith, Paul Samuel — *Richmond, Ind.*
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B.A., University of Wisconsin — Economics
Snyder, Earle Stanley — *Kitchener, Ontario, Canada*
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Sommer, Hugo Henry — *Sheboygan*
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Sommerfield, Howard Bruno — *Winnipeg, Canada*
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Spence, Leslie — *Madison*
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Tsao, Chen Kaeh — *Wuchang, China*
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Tsao, Jui Chih — *Shansi, China*
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Wilson, George Pickett — *Soudan, Va.*
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Wilson, Howard Thornton — *Granville, Ill.*
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Wolfe, Seth August — *Madison*
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Wood, George Emery — *Madison*
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Electrical Engineering
Zeisler, Emma Louise *La Crosse*
B.A., Milwaukee Downer College Mathematics
Zeuch, William Edward *Hopkinton, Iowa*
M.A., Clark University Economics
Zorbaugh, Grace S. McClure l *Cleveland, Ohio*
M.A., University of Wisconsin Economics
Zucker, Louis Clement *Madison*
M.A., University of Pennsylvania English

UNDERGRADUATES

COLLEGE OF LETTERS AND SCIENCE

Seniors

Abaly, Mae Estella se *Madison*
Adams, Adelaide Marion *Oak Park, Ill.*
Adolphson, Svea Mathilda se *Edgerton*
Alexander, Ruth *Madison*
Allen, Dorothy se *Indianapolis, Ind.*
Allen, Julia Christian *Oshkosh*
Allyn, Louise *Madison*
Anderson, Adelaide Julia se *McFarland*
Anderson, Gaylord Eugene *Kankakee, Ill.*
Anderson, Perry George *Edgerton*
Andrews, Ira Randolph *Hazel Green*
Atwood, John Thomas *Gays Mills*
Aultman, Edith Hickok *Camp Dix, N. J.*
Axtell, Dorothy Marie se *Evansville*
Babcock, John Davis *Neenah*
Babcock, Mary Ruth *Milwaukee*
Bagley, Eleanor Opal se *Cambridge*
Baird, Katharine Howard *Panama, Corozel, C. Z.*
Bakken, Henry Harrison *Blue Mounds*
Barney, Tyler Davis *Sparta*
Bartholf, Katherine *Glencoe, Ill.*
Barton, Alice Gwendolyn *Albany*
Barton, Helen Margaret se *Ypsilanti, Mich.*
Batz, Muriel Catherine se *Sun Prairie*
Bauer, Lawrence Hahn *Chicago, Ill.*
Bauman, George Alexander *Oshkosh*
Beardsley, George Lee *Westcliffe, Colo.*
Becker, Samuel *Milwaukee*

Beebe, Elizabeth	*Sparta*
Beebe, Margaret se	*Sparta*
Beecher,Frances Marie se	*Peoria, Ill.*
Bennett, Elizabeth Barbara se	*Viroqua*
Bergerman, Melbourne	*Pueblo, Colo.*
Beust, Nora	*La Crosse*
Bianco, Tony Joseph m	*Spooner*
Biersach, Herbert Frank	*Milwaukee*
Bilstad, Gwendolyn Warne se	*Cambridge*
Birong, Loraine Anna se	*Madison*
Blakeley, Mildred Lucille se	*Evansville*
Blanding, Bess Florence se	*Madison*
Blatter, Erwin Walter m	*La Crosse*
Blinston, Ruth Mary	*Madison*
Blish, Zirian Aldrich	*Fond du Lac*
Bloodgood, Francis Joseph	*Milwaukee*
Bodden, Flora Jeanette	*Menasha*
Boesch, Marjorie May	*Burlington, Iowa*
Boles, Lawrence Randall m	*Minneapolis, Minn.*
Bollenbeck, Marcella Kathryne	*Madison*
Bond, Eugene Ayres	*Madison*
Borchers, Irma Theresa	*Madison*
Borman, Milton Carter m	*Oshkosh*
Bowles, John Herschel m	*Sheldon, Ill.*
Boyce, Lloyd Merrill	*Milwaukee*
Breese, Gertrude Elizabeth	*Waukesha*
Breister, Benjamin Walter m	*Fond du Lac*
Breyvogel, Allie Lloyd	*Brodhead*
Bridgman, Harriet	*Shirley, Mass.*
Brink, Mildred Helen se	*Grand Rapids*
Brown, Clarence Baxter m	*Highland*
Brown, Edward Dexter	*Rhinelander*
Brown, Grace Sara	*Kansas City, Mo.*
Brown, Susan DeLaite	*Highland Park, Ill.*
Brownrigg, Clara A. se	*Merrimac*
Buell, Martha Merry	*Madison*
Bunge, George Christian l	*La Crosse*
Burwell, Amelia	*Madison*
Burwell, Consuelo	*Madison*
Busby, Allen Joseph se	*Milwaukee*
Busby, Fern Mae se	*Arcadia*
Bussey, Frederick Newton m	*Chicago, Ill.*
Buswell, Irma se	*Kendall*
Campbell, Arch Phelps m	*East Ellsworth*
Campbell, Everette Lowell m	*Madison*
Cance, Gladys Fern se	*Madison*
Cappon, Lester Jesse se	*Milwaukee*
Carberry, Wells Francis	*Milwaukee*
Carlson, Bonita Grace	*Oshkosh*
Carter, Warren Tuttle se	*Burlington*
Casey, Aileen Margaret	*Oconomowoc*
Casserly, Raymond James	*Madison*
Castles, Martha Lucile	*St. Louis, Mo.*

Chadbourn, Reuben Cornwell	*Columbus*
Chase, Helen Davison se	*Clinton, Iowa*
Chen, Tsung	*Foochow, China*
Church, Carl Adelbert	*Madison*
Clark, Loran Sumeson	*Wisconsin Rapids*
Clark, Marion Eugene m	*Indianapolis, Ind.*
Clasmann, Cora Marie	*Milwaukee*
Cluley, John Bowie se	*Rosebush, Mich.*
Coerper, Dorothy Magdalene	*Hartford*
Cole, Emerson Harmon	*Madison*
Collins, Mary Helen se	*Darlington*
Collins, William Kinney	*Madison*
Conklin, Virginia Teresa	*Madison*
Conlee, Carol Evelyn	*Madison*
Conlee, Ruth Isabelle	*Madison*
Connell, Laura May m	*Fond du Lac*
Conway, Mary Anna Florence se	*Antigo*
Conway, Margaret Irene	*Colby*
Coon, Gaylord Palmer m	*Madison*
Copeland, Doris Laurine	*Evansville*
Copeland, Herbert Faulkner	*Chico, Cal.*
Corley, Martha Eva	*Madison*
Correll, Ellen Fredericka	*Memphis, Tenn.*
Coxon, Robert Gregg se	*Madison*
Coxon, Thomas Turneau	*Madison*
Crabtree, Rodger Cooke	*Milwaukee*
Cray, Margaret Clark	*Lime Springs, Iowa*
Cremer, Dorothy Rita	*Red Wing, Minn.*
Cullmann, Ceona Dorothy	*West Salem*
Cummings, Sarah Sheldon	*Marquette, Mich.*
Damon, Kenneth Finch se	*Spokane, Wash.*
Daniels, Walter Edgar	*Oak Park, Ill.*
Darcy, Anne Marie	*Hillsboro*
Dauksys, Joseph Vincent m	*Madison*
Day, Eula Elizabeth	*Cleveland, Ohio*
Degan, Grace Anne	*Baraboo*
De la Hunt, Jane Allcott	*Milwaukee*
Dellinger, John Grant	*Madison*
De Vine, Eleanor Beatrice se	*Larwill, Ind.*
Dexter, Edwina M.	*Madison*
Dietrich, Dayis Mansfield	*Superior*
Dill, Marian Grace	*Superior*
Dippel, Alma Lydia se	*Baraboo*
Dean, Miriam	*Duluth, Minn.*
Doerfler, Frederic l	*Wauwatosa*
Doerr, Dorothy Anne se	*Mount Vernon, Ind.*
Donnelly, James Armon	*Oshkosh*
Dopp, Ernest Jr.	*Superior*
Double, Helen	*Los Angeles, Cal.*
Doyle, Chauncy Jay m	*Milwaukee*
Dreiblatt, Martha	*Brooklyn, N. Y.*
Duckett, Margaret Hildreth	*Boston, Mass.*
Dwight, Dorothy Marguerite se	*Madison*

Dyson, Helen Clarke	*La Crosse*
Ebert, Reinhold Otto m	*Marion*
Ehrman, Wilhelmina	*Oak Park, Ill.*
Elder, Joshua Gower	*Keokuk, Iowa*
Eleston, Mary Rose m	*Madison*
Elliott, Alvah Charles se	*Muscoda*
Ellis, Ivan George m	*Milwaukee*
Ellis, June Ethyle	*Madison*
Ely, Katherine Gordon se	*Madison*
Emerson, Adolph Herman m	*La Crosse*
Erickson, Edith Thelma	*West Allis*
Eschweiler, Elaine Katharine	*Madison*
Ewald, Edith Vivien se	*Mount Carmel, Ill.*
Ewing, Albert Button	*Louisville, Ky.*
Ewing, Edward Alvord	*New Haven, Conn.*
Exley, Erwin William m	*Menasha*
Fee, Marie Antoinette se	*Superior*
Fehland, Harold Roland m	*Merrill*
Fellows, Frank Samuelson m	*Algoma*
Felts, Genevieve Amelia	*Carbondale, Ill.*
Fiddyment, Alice Martha	*Norfolk, Va.*
Fiedler, Ralph Oliver	*Milwaukee*
Fischer, Milton Andrews se	*Merrill*
Fish, Hazel Mary se	*Cleveland, Ohio*
Fish, Marjorie Elizabeth se	*Cleveland, Ohio*
Fitz Gibbon, Helen Claire se	*Madison*
Forsbeck, Filip Carl m	*Milwaukee*
Forthal, Sonya se	*Cleveland, Ohio*
Fortier, Jean Andrew	*Powers, Mich.*
Foshion, Herbert Victor m	*Brussels*
Fox, Matie Dorothy wls	*Waterloo*
Fox, Raymond Walter	*Waterloo*
Foxon, Fern Iola se	*Northampton, Mass.*
Frazer, Gladys Lucile	*Evanston, Ill.*
Free, Mary Ellen	*Neillsville*
Fries, Mary Fredonia se	*Richland Center*
Fritsche, Louise Catherine	*New Ulm, Minn.*
Fronk, Joseph Edward se	*Mishicot*
Gallagher, Sarah Dean	*Wilmette, Ill.*
Gardiner, Edythe Marion	*Edgerton*
Gardner, Claude Dennis	*Platteville*
Gardner, Irene Gladys se	*Ashland*
Gasser, John Jacob m	*Chicago, Ill.*
Gasul, Benjamin Morris m	*Kenosha*
Gatterdam, Paul Christoffers m	*La Crosse*
Geske, Walter Albert	*Colgate*
Gettle, Rollin Brown	*Madison*
Getzelman, Eunice Jane	*Elgin, Ill.*
Gilbert, Corinthia se	*Nevada, Mo.*
Gilbert, Ida Grace	*Oklahoma City, Okla.*
Gile, Nyria Venice se	*Edgerton*
Giryotas, Emelia Josephine	*Madison*
Gleason, Joseph Baird	*Madison*

Gnagi, Will Bender	*Monroe*
Gold, Ida E. se	*Berlin*
Goo, Mabel Sue Fung	*Honolulu, Hawaii*
Gormley, Margaret	*Spokane, Wash.*
Gotfredson, Roy Charles	*Green Bay*
Gould, Stevens	*Oshkosh*
Graves, Helen Bryan se	*Viroqua*
Gray, Frank Winchester	*Milwaukee*
Greenspon, Jennie	*Appleton*
Gregg, Ashton Carter l	*Decorah, Iowa*
Gregory, Laurence William m	*Valders*
Grill, Karl Rudolph Nathanael	*Denver, Colo.*
Guerini, Esther Teresa	*Middleboro, Mass.*
Guyer, Edwin Michael Cooley	*Madison*
Haass, Marie Evelyn	*Merton*
Halden, Elizabeth	*Duluth, Minn.*
Halline, Edward Paul	*Madison*
Halling, Eric Martin	*Milwaukee*
Halperin, Harry	*Madison*
Hammond, Reginald Wilmot m	*Manitowoc*
Handran, Ethelyn Anne se	*Waterford*
Hanley, Catherine Irmena se	*Madison*
Hanlon, Harvey se	*Plymouth*
Hanson, Julian	*Sturgeon Bay*
Hargan, James	*Madison, Ind.*
Harman, Hubert Fish m	*Sparta*
Harman, John Claire m	*Sparta*
Hart, Milton Russell	*Boise, Idaho*
Hartlett, Elvin Mann m	*Germantown, Pa.*
Harville, Clifford Henry m	*Eau Claire*
Haskins, Gladys Marjorie se	*Madison*
Hastings, Edith Amy	*Kenosha*
Hastings, Minnetta Annie	*Madison*
Hausmann, Millie Louise	*Madison*
Hecker, Marjorie se	*Fort Wayne, Ind.*
Heidner, Frederick Carl m	*West Bend*
Heindel, Betty Mae	*Kenosha*
Hendricks, Lydia Anne se	*Tomah*
Hennel, Norma Lillian	*Coshocton, Ohio*
Henry, Thelma Mae	*Davenport, Iowa*
Herreid, Borghild Theodora se	*Madison*
Herron, Lucille Beatrice se	*Milwaukee*
Hess, James Samuel m	*Mauston*
Hield, Charles Raymond se	*Janesville*
Hildreth, Barbara	*Washington, D. C.*
Hill, Harold Douglas	*Milwaukee*
Hintz, David Herman	*Almond*
Hipple, Marietta se	*Madison*
Hirsig, Pearl Theodosia	*Mount Horeb*
Hoffman, Ruth Emma se	*Milwaukee*
Hogan, Edith Margaret	*Superior*
Holbrook, Joseph Carlton	*Okmulgee, Okla.*
Holcombe, Robert Lyndon	*Madison*

Holford, Eunice Alberta	*Cassville*
Holford, Frances Elizabeth m	*Cassville*
Hollands, Dorothy May	*Oak Park, Ill.*
Holscher, Herbert Frederick l	*McFarland*
Holzer, Janet Eunice	*Milwaukee*
Hooey, Clifford Kile	*Rice Lake*
Hooper, Helen	*Oshkosh*
Hoppe, Erich Otto	*Platteville*
Hoppenyan, Margaret Mary	*Ashland*
Hovland, Frank Carl	*Bloomer*
Howe, Cecilia Anne se	*Darlington*
Hubbell, Roy Manning	*Sharon*
Hudson, Robert James m	*Madison*
Hume, Jessie Henrietta	*Milwaukee*
Huntington, Vina Layzette	*Darlington*
Jewell, Matilda Mitchell	*Grand Rapids, Mich.*
Jobson, Ellen Clair	*Danville, Ill.*
John, Lillian se	*Milwaukee*
Johnson, Howard Lauritz se	*Racine*
Joliffe, Elsie Lucy wls	*Bozeman, Mont.*
Jones, Janet	*Wabash, Ind.*
Jones, John Paul se	*Milwaukee*
Jordan, John Alois	*Oshkosh*
Jorgenson, Louise Margaret se	*Racine*
Juster, Eugene Meyer m	*Milwaukee*
Kaems, Lester Lincoln se	*Manitowoc*
Kallio, Marie	*Finlayson, Minn.*
Kan, Chia-Hon	*Shanghai, China*
Kastlin, George Jacob m	*La Crosse*
Kaufman, Abraham se	*New York, N. Y.*
Kay, Carolyn Cantine	*Alliance, Ohio*
Keeley, Helen Marie se	*Mayville*
Keeley, Lawrence Carl	*Mayville*
Kellogg, Horace Bauter	*Antigo*
Kenseth, Selvida Gertrude se	*Cambridge*
Kieckhefer, Norma Helen	*Milwaukee*
Kiland, Inger Andrea	*Madison*
Kilgour, Jean Wallace	*La Grange, Ill.*
Kimball, Dean Prichard	*Janesville*
Kinne, Helen Susan	*Orofino, Idaho*
Kiser, Elliott Fox	*Eau Claire*
Kitchin, Katherine Ardelia	*Chicago, Ill.*
Klosterman, Erna Henriette	*Shawano*
Kneer, Bertha Barbara	*Eau Claire*
Knight, Jocelyn Winthrop	*Racine*
Knudson, Arthur Hackel m	*Kenosha*
Knudson, Ruth Odena se	*La Crosse*
Koelsch, Dorothy	*Boise, Idaho*
Kohl, Leo Henry	*Marshfield*
Kolitsch, Louis Joseph se	*Appleton*
Koppke, Ruth Josephine se	*Madison*
Kraege, Frederick Halsey l	*Madison*
Krauskopf, Ruth se	*Milwaukee*

Kriewaldt, Martin Rudolf l	*Lameroo, South Australia*
Krohn, Bessie Edna se	*Lancaster*
Krome, Hannah se	*Milwaukee*
Lahman, John Harold	*Franklin Grove, Ill.*
Laird, Harold Remington	*Madison*
Lampton, Adine Terrell	*Jackson, Miss.*
Langstadt, Lucille Lena se	*Appleton*
Lautenbach, George Robert	*Weyauwega*
Laylin, Ruth Hathaway	*Columbus*
Leach, Paul Howard	*Joliet, Ill.*
Leary, Susan se	*Oak Park, Ill.*
Lee, Lihfau	*Chienking, China*
Lehmann, Jane Schrumpf	*Madison*
Lentz, Robert Carl	*Mayville*
Levitin, Nadia se	*Madison*
Lewis, Lorna Lucille	*Oshkosh*
Lewis, Pauline S.	*Madison*
Linden, Gabriel Eric m	*Madison*
Lindsten, Esther Merwyne	*Chicago, Ill.*
Lingenfelter, John Samuel m	*Butte, Mont.*
Llewellyn, Pauline se	*La Grange, Ill.*
Lockwood, Joseph Edward	*Trenton, N. J.*
Loeffler, Alice Vida se	*Armour, S. Dak.*
Longstaff, John Walter	*Huron, S. Dak.*
Loomer, Harlin Gilbert	*Madison*
Lounsbury, James Anderson	*Madison*
Lovell, Doris Maxine	*Fargo, N. D.*
Low, Florence Henrietta	*La Porte, Ind.*
Lutz, Oneita m	*Sheboygan*
Lyman, Auta Eveline	*Madison*
McCaffery, Miriam	*Madison*
McCaslin, Margaret Isabel	*East Cleveland, Ohio*
McClimans, Grace Bell	*Franklin, Pa.*
McDiarmid, Ada Winnifred	*Burkhardt*
MacDonald, Paul Robert m	*Madison*
McDonald, Robert Edmund	*Milwaukee*
McDowell, Margaret Esther	*Milwaukee*
McDowell, Mary Kathleen	*Robinson, Ill.*
McGary, Lester m	*Norwalk*
McKay, Marjorie Belle	*Waterford, Pa.*
McKellar, Jessie Mae se	*Blanchardville*
McKinley, Edwin Daniel m	*Dodgeville*
McLemore, Mildred Cornelia se	*Nevada, Mo.*
McMurry, Ora Richard	*Evansville*
McNeil, Helen	*Virginia, Minn.*
MacQueen, William Blair	*Oconto*
Madsen, Mars Laurice m	*Veborg, S. Dak.*
Madsen, Violet Hansa	*Oregon*
Maher, Beatrice m	*Kalamazoo, Mich.*
Mahler, Anita Ida se	*Milwaukee*
Mandelker, Martin m	*Milwaukee*
Mar, Severo Francisco m	*Tampico, Mex.*
Marquardt, Gladys Eugenia	*Wausau*

Marsden, Wendell Herbert m	*Fennimore*
Martineau, Thomas Bourgoin l	*Oshkosh*
Martini, Margarete Katherine	*Madison*
Mather, Doris Harriette se	*Ladysmith*
Maxwell, Mary Wilson se	*Marshalltown, Iowa*
Maxwell, Sara Christine	*Cookeville, Tenn.*
Meid, Marie Agnes	*Indianapolis, Ind.*
Meisnest, Leila Amelia se	*Branch*
Melcher, Louis Chester	*Madison*
Mendenhall, Ann Louise	*Dayton, Ohio*
Mendenhall, Catherine	*Sheldon, Ill.*
Meyer, Frieda Annemarie	*Milwaukee*
Meyers, Helen Amanda	*Evansville*
Michaelis, Carlena Jane se	*Kenosha*
Miller, Adelaide Henrietta se	*Madison*
Miller, Birney Frank	*Omaha, Neb.*
Miller, Eva se	*Milwaukee*
Miller, Maude Mildred	*Markesan*
Mitchell, Jessie Marie se	*Madison*
Misna, Ann Agnes	*Cashton*
Moon, John Frank m	*Rosendale*
Morgan, Aileen Emily	*Wilmot*
Morgan, Ruth Elizabeth se	*Wilmot*
Morrasy, Esther Mary	*Sheffield, Ill.*
Morris, Gertrude Lenore se	*Cambria*
Morse, Beatrice Gertrude	*Fond du Lac*
Mossman, Sybil Claire	*Huntington, W. Va.*
Mountin, William John	*Hartford*
Mueller, Gustav Gottlieb m	*Princeton*
Muldowney, Fenton Richard	*Highland*
Mulrooney, Elizabeth Mary se	*Bloomington*
Murphy, Donald Bates	*Peoria, Ill.*
Murphy, William John m	*Chilton*
Neidig, Verna True	*Plankinton, S. Dak.*
Nelson, Gordon Edward	*Superior*
Nelson, Laura Marsh	*Milwaukee*
Nodine, Vera Alberta se	*Waterloo, Ind.*
Norem, Lawrence Everett	*Milwaukee*
Oakes, Alice Elizabeth se	*Canton, Ohio*
Oechsner, Julia Dorothy	*New Orleans, La.*
Ohlson, Guy Edward m	*La Crosse*
O'Hora, James Timothy m	*Mazomanie*
O'Keefe, Margaret Mary	*Waunakee*
Olson, Mildred Karen	*Madison*
O'Malley, Charlotte Mary	*Madison*
O'Neil, Philip Edward	*Cloquet, Minn.*
Osborn, Chandler	*Oshkosh*
Osgood, Carroll Wilcox m	*Brodhead*
Parker, George Macdonald	*St. Louis, Mo.*
Pasch, Lester Adolph	*Milwaukee*
Payne, Wilfred Gladstone	*Wauwatosa*
Pearson, Dorothy Louise	*Montclair, N. J.*
Perkins, Persis Allen	*Colorado Springs, Colo.*

Perlman, Henry Bernard m	*Madison*
Perrigo, Harold William	*Oshkosh*
Peterson, Dorothy Sophie	*Stockholm*
Peterson, Edward Nohl m	*Florence*
Peterson, Laura Cecelia	*Stockholm*
Peterson, Lyndle Wilson m	*Shawano*
Pfluegner, Dorothy Anita se	*Milwaukee*
Phillips, Lyle Graham m	*Madison*
Pierce, Melvin Charles	*La Crosse*
Pinney, Martha May	*Sturgeon Bay*
Pinto, René Wentworth	*Madison*
Pohle, Genevieve Anna se	*Madison*
Pope, Margaret Isabel se	*Pewaukee*
Porter, Anna Maude	*Evansville*
Porter, Catherine Alice se	*Madison*
Potter, Frances Mortimer	*Detroit, Mich.*
Potts, Esther Viola	*Madison*
Prince, Jean Trezona se	*Coleraine, Minn.*
Purnell, William Henry Jr	*Kenosha*
Rall, Helen Doris	*Toledo, Ohio*
Ray, Dorothy Margaret se	*Madison*
Reid, Ruth Elizabeth	*Hurley*
Reilly, Lucille Agnes	*Fond du Lac*
Reinertsen, Vivian Mary	*Milwaukee*
Reinking, John Juergen	*Madison*
Reitan, Rudolph Norman	*Bonduel*
Roach, Mary Virginia se	*Minneapolis, Minn.*
Roberts, Carol Aletta se	*Wild Rose*
Roberts, Richard Alexander	*Chicago, Ill.*
Rock, Helen Louise	*Superior*
Romig, Ruth Evangeline se	*Madison*
Rose, Bertha Elizabeth se	*Rossville, Ind.*
Rosenberry, Katherine	*Madison*
Rounsville, Doris Marie	*Milwaukee*
Ruedebusch, Clara Cora se	*Mayville*
Russell, Charles William	*Flandreau, S. Dak.*
Rutter, Mary Lee	*Madison*
Rydjord, John	*Lily, S. Dak.*
Sale, William Merritt	*Louisville, Ky.*
Sammis, Josephine Louise se	*Madison*
Sander, Esther Adele	*Fond du Lac*
Sattre, Jane Marion	*Rice Lake*
Schmidt, Dorothea Marguerite se	*Freeport, Ill.*
Schmidt, Faye Ellis	*Madison*
Schweiger, Leo Joseph m	*Cashton*
Schweizer, Caroline	*La Crosse*
Schwinn, Walter Kelly	*Red Oak, Iowa*
Sehon, Elizabeth Lewis se	*Louisville, Ky.*
Seymour, Helen Louise se	*Reedsburg*
Shaner, Dorothy Romaine	*Philadelphia, Pa.*
Sheldon, Eleanor Pray	*Madison*
Shirey, Hazelbelle se	*Madison*
Shockey, Franklin Perre	*Oak Park, Ill.*

Sibilsky, Carl Edward m	*Algoma*
Siljan, Pearl Marie se	*Madison*
Simonson, Marion	*Tomah*
Sims, Leslie Clinton l	*Rice Lake*
Sinaiko, Herman Louis	*Madison*
Smedal, Erling Arnold m	*McFarland*
Smith, Ermin	*Wisconsin Rapids*
Smith, Herbert Herald l	*Milwaukee*
Snashall, Hylva Evelyn se	*Janesville*
Sneider, Elmer Frank	*Sheboygan*
Sorensen, Thorval Livi m	*Racine*
Sorenson, Roy	*Milwaukee*
Spaun, Robert Baylis	*Beloit*
Spence, Ralph Beckett se	*La Crosse*
Spensley, Alice Lila	*Madison*
Spiker, Irene se	*Gary, Ind.*
Stalker, Dan Norman se	*Toledo, Ohio*
Stavrum, Margaret Regina	*La Crosse*
Stearns, Dana Preston m	*Mason City, Iowa*
Stephenson, Edwin Ambrose	*Trenton, N. J.*
Steven, Isabel Ellen	*Glenwood City*
Stewart, Lillian Victoria se	*Madison*
Stewart, Pearl Esther	*Baltimore, Md.*
Stockdale, Ethol Wagner	*Milwaukee*
Stone, Maysie	*Rochester, N. Y.*
Stroup, Helen Gladys	*Grand Rapids, Mich.*
Stucki, John Calvin m	*Black River Falls*
Sullivan, Veronica Mary se	*Madison*
Sumner, Dorothy Dunning	*Madison*
Sumption, Dorothy se	*Kendallville, Ind.*
Sundt, Guy Merrill se	*Stoughton*
Swartzbaugh, Edith Blackford	*Toledo, Ohio*
Swetli, Ellen Marion se	*Milwaukee*
Sygman, Samuel l	*Two Rivers*
Talbot, Harry George m	*Madison*
Taylor, Harold Westlake	*Indianapolis, Ind.*
Teichgraeber, Florene	*Emporia, Kan.*
Thomas, Marjorie se	*Appleton*
Thomas, Warren Stratman m	*Mineapolis, Minn.*
Thompson, Gilman Alfred se	*Mount Horeb*
Thompson, Gladys Eleanor se	*Chicago, Ill.*
Thompson, Lila	*Elmwood*
Thompson, Stuart Edward	*Neenah*
Throne, Mildred Irene se	*Cullom, Ill.*
Thun, Margaret Emelia	*Nyomissing, Pa.*
Todd, Marjorie	*St. Louis, Mo.*
Toepfer, Raymond August m	*Oregon*
Tomlin, Elgie Viola se	*Madison*
Trachte, Clarence Gilbert	*Watertown*
Trauba, Norbert Carl m	*Marathon*
Tseng, Chausson Chao-cheng	*Changsha, China*
Tucker, Alice Needham se	*Berwyn, Ill.*
Turney, Kathryn	*Indianapolis, Ind.*

Tuttle, Clifton Milton	*Madison*
Uhl, Helen Grace	*La Crosse*
Van Aken, Julia	*Coldwater, Mich.*
Vance, Esther Miriam	*Eddyville, Iowa*
Van Houten, Richard Walter	*Milwaukee*
Van Meter, Frances se	*Des Moines, Iowa*
Vetten, Cornelius Nicholas m	*Sheboygan*
Wagg, Angelyn se	*Appleton*
Waldron, Eloise se	*Fargo, N. Dak.*
Wall, Mark Henry	*Eau Claire*
Ware, Dorothy Rhoda	*Portage*
Warner, Elizabeth Dale	*Madison*
Warner, William Everett se	*Madison*
Warsinske, Mildred E. se	*Marshfield*
Watson, Julie Courtenay	*Duluth, Minn.*
Weaver, Elizabeth	*Indianapolis, Ind.*
Weir, Helen May	*Des Moines, Iowa*
Weisman, Jacob Mathew l	*Racine*
Welch, Stanley Edwin	*Chicago, Ill.*
Werner, Peter Albert se	*Milwaukee*
Werner, Victoria Lydia se	*Oshkosh*
Westendarp, Dorothy Emma se	*Coldwater, Mich.*
Wheeler, Catherine Eleanor se	*Wauwatosa*
Whitaker, Joe Russell	*Cynthiana, Ky.*
White, Burton Henry	*Oconomowoc*
White, Paul Benjamin	*Madison*
Whitlock, Martha Phelps	*Chicago, Ill.*
Wible, Herbert Lloyd l	*Elm Grove*
Willett, Alfred Edwin	*Plainfield, N. J.*
Williams, Clement Harman	*Elkhart Lake*
Williams, John McMynn	*Oberlin, Ohio*
Winchell, Ima Charlotte	*Madison*
Winslow, Mary Isabel se	*Madison*
Winter, Mabel	*Madison*
Wofsy, Samuel Abraham	*Madison*
Wurlitzer, Valeska Helene	*Cincinnati, Ohio*
Yeoman, Alta Thiele se	*La Crosse*
Zander, Edith Marie se	*Two Rivers*

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Course in Commerce

Abbott, John Rodney	*Wilton*
Abrahamson, Abe	*Winthrop Harbor, Ill.*
Alexander, Marjorie	*Milwaukee*
Andersen, Victor Sigurd	*Madison*
Anderson, Calmar Thorpin	*Chippewa Falls*
Anderson, Luther Carleton	*Scandinavia*
Arnquist, Anna Theodora	*Hudson*
Arvidson, Oscar Frederick	*Marinette*
Aspinwall, Robert Abbott	*Ft. Atkinson*
Bailey, Donald Moore	*Sioux City, Iowa*
Bailey, Paul Edward	*Menominee*
Bardeen, Frank Adelma	*Milwaukee*
Battles, Graham	*Peoria, Ill.*

Baum, George William	*La Crosse*
Baum, Walter Henry	*La Crosse*
Benson, Arthur Hjalmar	*Clear Lake*
Berge, Abel John	*Cambridge*
Bergman, Alfred Edward	*Eau Claire*
Bilansky, Hyman Joseph	*Milwaukee*
Birkett, Lloyde William	*Hazel Green*
Bischoff, Clifford Edward	*Superior*
Blair, Walter Borden	*Plainfield*
Boerke, Edison Morse	*Wausau*
Boerke, Elmer George	*Wausau*
Bohrie, Waldemar Frederick	*Fountain City*
Bonk, Peter Gregory	*Two Rivers*
Bonslett, Edward William	*Woodstock, Ill.*
Booth, Leland Lundy	*Oklahoma City, Okla.*
Borden, Leighon Charles	*Milwaukee*
Bosworth, Robert Louis	*Oklahoma City, Okla.*
Boyce, Fred Comstock, Jr.	*Wausau*
Brann, Lester William	*Baileys Harbor*
Braun, Edward John	*Cassville*
Braun, Mervyn	*Milwaukee*
Brewer, George Frederick	*Indianapolis, Ind.*
Brodt, Cecil DeWitt	*Rice Lake*
Bronson, Carl Evans	*Spencer, Iowa*
Butler, Marian	*Appleton*
Caluwaert, Evrard Charles	*Madison*
Capek, Charles Ashmore	*Antigo*
Capen, Henry Willis	*Bloomington, Ill.*
Ceaser, Carl Frederick	*Boise, Idaho*
Chapleau, Elmer William	*Port Washington*
Charlson, Roy Marion	*Eau Claire*
Clear, Ewart Keller	*Fort Wayne, Ind.*
Cohen, Fred	*Marinette*
Coleman, Joseph Carroll	*Janesville*
Conkling, Gerald Marsh	*Lyons, Kans.*
Corriveau, Allen LeTendre	*Port Edwards*
Crane, Eugene Edward	*Chippewa Falls*
Crowley, Robert John 1	*Janesville*
Curry, Robert James	*Baraboo*
Cusick, Francis Leroy	*Easton, Minn.*
Danielson, John Julien	*Rio*
Davis, George Cundall	*Milwaukee*
Desmond, Humphrey Earl	*Milwaukee*
Diamond, Jerome	*Milwaukee*
Dollard, John Adrian	*Fond du Lac*
Donalds, John Eustace	*Superior*
Drotning, Henry Orsamus	*Madison*
Duecker, Hurbert Carl	*Kiel*
Durkes, Luther Lahman	*Franklin Grove, Ill.*
Ecke, Rollin Evans	*Fond du Lac*
Edwards, Ethel Marie	*Marion*
Ekern, Elsie Alverne	*Madison*
Emmons, Lawrence Earle	*Quincy, Ill.*

Engelhardt, Carl John	*Milwaukee*
Engelhardt, William Frederick	*Milwaukee*
Evenson, Alf. Ingvald	*La Crosse*
Evenson, Louis Orlando	*Antigo*
Falk, Gustave Rudolph	*Spooner*
Falstad, Ralph Leonard	*Eau Claire*
Felten, Clarence Bernard	*Milwaukee*
Ferguson, Leander Wood	*Madison*
Flinn, William Claude	*Superior*
Fuhrman, Carl Gustave	*Dubuque, Iowa*
Ganswindt, Albert Henry	*Slades Corners*
Garstang, Reginald William	*Indianapolis, Ind.*
Gebhardt, Hertha Anna	*Juneau*
Geimer, Roland Jonas	*Two Rivers*
Goldberg, Mark	*Madison*
Goo, Violet	*Honolulu, Hawaii*
Griem, Lester Victor	*New Holstein*
Groth, Harold Henry	*Manitowoc*
Halverson, Stener Benjamin	*Madison*
Hamelrath, Dorothy Grace	*Merrill*
Hawley, William Emery 1	*Baldwin*
Heim, Laura Elizabeth	*Madison*
Hennessey, Martin Francis	*Lone Rock*
Henry, Robert Allison	*Macfarland*
Heseman, Earl John	*Evansville, Ind.*
Hickey, Rollin Martin	*Reedsburg*
Horn, Matilda Olga	*Brillion*
Jansen, Leonard Joseph	*Kaukauna*
Jessell, Reuben Fred	*Madison*
Johnson, Leonard Marion	*Orfordville*
Jones, David Roswell	*Spring Green*
Jones, Wesley Warren	*Madison*
Jordan, Stanislaus Stephen	*Oshkosh*
Kinnan, Arthur Houston	*Madison*
Kneevers, Earl Edwin	*Sheboygan*
Knilans, Stuart Crocker	*Sheboygan*
Koehler, William John	*Milwaukee*
Krohn, Victor Eugene	*Black River Falls*
Kruse, Elmer Deling	*Madison*
Lane, Robert Ellsworth	*Janesville*
Lawson, Philip Carl	*Clinton*
Lemke, Arthur Carl	*Cadott*
Lichtfeldt, Pearl A.	*Milwaukee*
Lilly, John Joseph	*Milwaukee*
Lindstrom, Ruth	*Viroqua*
Lorig, Arthur Nicholas	*So. Milwaukee*
Lubenan, John George	*Fall River*
*McConnell, Ansley Bryan	*Darlington*
McFarland, Evelyn Volmer	*Los Angeles, Calif.*
MacGregor, William Grant	*Westfield*
McIntosh, Clarence William	*Edgerton*
McKay, Neil Scott	*Huron, S. Dak.*

*Died December 4, 1921.

Mainland, William Bruce	*Oshkosh*
Makinson, Amy Waugh	*Kissimmee, Fla.*
Marshall, Thomas George 1	*Belvidere, Ill.*
Martin, Horace Perry	*Mineral Point*
Mason, George Mitchell	*Verona*
Mathews, Murray Cornelius	*Ashland*
Mautz, Bernhard Meyer, Jr.	*Madison*
Maytum, Thelma E.	*Alexandria, S. Dak.*
Merkel, Leo Joseph	*Appleton*
Merrick, Dale McKeen	*Eldora, Iowa*
Miller, Omar Peter	*Manitowoc*
Minshall, Cyrus Bertrand	*Madison*
Mulvaney, Walter Andrew	*Hudson*
Myrland, Eiel Harmon	*Mauston*
Nash, Richard Michael	*Madison*
Nolte, Phillip Pickering	*Wauwatosa*
O'Brien, Louis Joseph	*Danville, Ill.*
Ormond, Roy Bazanquith	*Brookfield*
Orvis, George Carl	*Waukesha*
Ott, Hans Waldemar	*Watertown*
Paddock, Forrest Glenn	*Ashton, Ill.*
Page, Arnold Seaver	*Kansas City, Mo.*
Park, Benjamin Herbert	*Fond du Lac*
Pearson, Ralph Jenkins	*Madison*
Perry, Robert Hazard	*Madison*
Peterson, Ralph Henry	*Milwaukee*
Pond, Thomas Henry, Jr.	*Keokuk, Iowa*
Presser, Erwin Joseph	*Milwaukee*
Prokop, Joseph John	*Eau Claire*
Quam, Jerry Herman	*Stoughton*
Rehberg, Harold Romaine	*Janesville*
Remington, Margaret Amy	*Hibbing, Minn.*
Rendall, Willard James	*Des Moines, Iowa*
Richardson, Carolyn Margaret	*Delavan*
Rigby, Esther Grace	*Milwaukee*
Ritzenthaler, Otto Martin	*Baraboo*
Ruffalo, Fred	*Racine*
Ryan, Mildred Elizabeth	*Madison*
Ryan, Patrick Henry, Jr.	*Sheboygan*
Sampson, George Nelson	*Minong*
Sawyer, William Merrill	*Madison*
Schneider, Arthur Henry	*Chippewa Falls*
Schomisch, Norman Nicholas	*Appleton*
Schroeder, Henry Frederick	*Milwaukee*
Schujahn, Alvin David	*Fond du Lac*
Sell, Vernon Wallis	*Reeseville*
Shaw, Reginald Mathison	*Superior*
Sidle, Stanley Raymond	*Viroqua*
Silverness, Emil Leonard	*Mondovi*
Simpson, Noel R.	*Oshkosh*
Sinaiko, Isaac	*Madison*
Slothower, David Wendell	*Platteville*
Smith, Edwin Eugene	*Jacksonville, Ill.*

Smith, Howard Irvine	*West Salem*
Sollitt, Lincoln Abbott	*Chicago, Ill.*
Staples, Jasper Fayette	*Onalaska*
Stark, Theodore Eugene	*Madison*
Stavrum, Thomas Lowell	*La Crosse*
Stevens, George Oliver	*Chicago, Ill.*
Stolley, George Brockway	*Milwaukee*
Stuebing, Albert Carl	*Sioux Falls, S. Dak.*
Sundt, Percy Odin	*Stoughton*
Sweet, Ben	*Middleton*
Sylvester, Walter Herbert	*Wauwatosa*
Syverson, Rudolph	*Eleva*
Taylor, Warren Alvin	*Ashland*
Thauer, Richard Clarence	*Watertown*
Thomas, Margaret Augusta	*Wauwatosa*
Thwing, Elizabeth	*Maumee, Ohio*
Tillisch, Michael Ravn	*Merrill*
Tipple, Erwin Russel	*Oregon*
Tuttle, Karl Rogers	*Spencer, Iowa*
Voorhis, Charlotte Calvin	*Yonkers, N. Y.*
Walker, Harland Bert	*Almond*
Warner, Lawrence Potter	*Beloit*
Wendroff, Herman	*Milwaukee*
Wickenden, Gertrude Worth	*St. Louis, Mo.*
Wiley, Harley Beal	*Hancock*
Williams, Frank McKinley	*Earl*
Williams, Porter Ackerman	*Estherville, Iowa*
Wolberg, Harvey Theodore	*Iola*
Woodhouse, Irving	*Bloomington*
Yapp, Clinton R.	*Madison*
Yu, Yin Chieh	*Swatow, China*
Zimmerman, Harry Francis	*Neillsville*
Zimmerman, Rudolph Charles	*Carrollville* —204

Course for Normal School Graduates

Astell, Mollie	*Madison*
Betzer, Althea Elizabeth	*Kenosha*
Boedeker, Ruth Margaret	*St. Louis, Mo.*
Bonzelet, Gertrude Louise	*Madison*
Burke, Richard John se	*Madison*
Chillrud, Franklin Chester se	*Scandinavia*
Clark, John Antony se	*Manitowoc*
Clemens, Paul Bernard se	*Superior*
Crowe, Mary	*Charleston, Ill.*
Dresden, Marie	*Ladysmith*
Duffin, Lois Henrietta	*Whitewater*
Ellis, Samuel Robert se	*Endeavor*
Emerson, Jean	*Baker, Mont.*
Fredrick, Jessie Rutherford	*St. Louis, Mo.*
Fuller, Bessie Beatrix se	*Barron*
George, Caddie Gertrude	*Gays Mills*
Hamilton, Laura Marie	*Whitewater*
Haug, Hannah Marie	*Spring Valley*

Hofsoos, Selma Berthea	*Stevens Point*	
Holdahl, Isabelle Theresa	*Beldenville*	
Horton, Evelyn Leona	*St. Louis, Mo.*	
Hulten, Charles Ernest se	*Madison*	
Jones, Harrison John	*Spring Green*	
Luther, Elizabeth Lodicy se	*Poynette*	
Marsh, Herbert Nelson se	*Stevens Point*	
Moreau, Fred James	*Casco*	
Radke, Frieda Helene se	*Neillsville*	
Smith, Beulah Ina	*Milwaukee*	
Tregear, Jessie Cameron	*Detroit, Mich.*	
Williams, Lenore Margaret	*Waukesha*	—30

Course in Chemistry

Baughman, Theresa Cecile	*Wisconsin Rapids*	
Cartwright, Ian J.	*Minong*	
Domogalla, Bernhard Paul	*Milwaukee*	
Draize, John Henry	*Brussels*	
Drobka, Frank Joseph se	*Manitowoc*	
DuBois, Horace Albert	*Neenah*	
Fawkes, Charles Elliott	*Dubuque, Iowa*	
Flikkie, Henry John	*Viroqua*	
Glomstead, Edwin Engwald	*Sturgeon Bay*	
Gooding, Ralph Urban	*Fond du Lac*	
Griem, Walter Bert	*New Holstein*	
Hrubesky, Clarence Earl	*Menasha*	
Huntley, Alton Karl	*Madison*	
Kahlenberg, Herman Heald	*Madison*	
Kung, Müller Ling-Hsuan	*Shantung, China*	
Ludden, Alfred Dexter	*Mineral Point*	
Nissen, Brynjulv H.	*Madison*	
Palmer, Genevieve Arlysle	*Columbus*	
Perrin, Hubert Logan	*Ashland*	
Peterson, Lester William	*Leonardsville, N. Y.*	
Pickering, Elizabeth se	*Madison*	
Pier, Harry McKay	*Richland Center*	
Sawyer, Frances Marie	*Milwaukee*	
Schleck, Leo Peter	*Madison*	
Shen, Matthew Hsiung-Ching	*Shanghai, China*	
Stambaugh, Philip Sheridan	*Stoughton*	
Stein, Bruno Adam	*S. Germantown*	
Tiedeman, Leonard Paul	*Madison*	—28

Course in Journalism

Ahern, Dorothy Frances	*Fond du Lac*	
Bridgman, Mary Fawcett	*Stanley*	
Castle, Elizabeth Holyoke	*Quincy, Ill.*	
Churchill, Dorothy Helene	*Milwaukee*	
Coerper, Henry John, Jr.	*Indianapolis, Ind.*	
Coward, Isadore Elizabeth	*Lodi*	
Crosby, Marion Pennell	*Rhinelander*	
Daly, Margaret Frances	*Chicago, Ill.*	
Desmond, Robert William	*Milwaukee*	

Dickson, Mary Myrtle	*Freeport, Ill.*
Doherty, Marguerite Eleanor	*Williamsburg, Iowa*
Edwards, Eugene Theodore	*La Crosse*
Elliot, Bernice	*Highland Park, Mich.*
Ferguson, Katherine L.	*Lake Geneva*
Garvey, Isabel Whitney	*Chicago, Ill.*
George, Lloyd	*Geneva, Ill.*
Gerlach, Mildred Marie	*Chicago, Ill.*
Greene, George Webster	*Madison*
Hamilton, John Stuart	*Westfield*
Haven, Esther Olive	*Hudson*
Hill, Mildred Sarah se	*Beloit*
Irish, Iona Viola	*Underhill, Vt.*
Jacobson, Kenneth Hopkins	*Curtiss*
Katz, Elisabeth	*Milwaukee*
Koltes, Florence Josephine	*Waunakee*
Lee, Edward Noble	*Chicago, Ill.*
Lyford, Harry Burgh	*Hampton, Va.*
MacBride, La Mont Leslie	*Granton*
McCoy, Bruce Riege	*Sparta*
MacInnis, Charles Pattison	*Pittsburgh, Pa.*
Manson, Charles Leighton	*Wausau*
Moore, Thomas Francis	*Watertown*
Morton, Annie Elizabeth	*Omro*
Mould, Mary Elizabeth	*Sioux City, Iowa*
Oliver, George Peter	*Galesville*
Peterman, Ivan Hugh	*Cecil*
Rockwell, Katherine Edith	*Oshkosh*
Rowland, David Hand	*Racine*
Saunders, Clare Caster	*Madison*
Schram, Donald Finney	*Beloit*
Schutz, George John, Jr.	*Shawano*
Shaw, Evelyn Maud	*Madison*
Strassburger, Marion Brunette	*Oshkosh*
Walker, Margaret Ruth	*Almond*
Welsh, Rodney Costello l	*Madison*
Woodworth, Douglas Harmon	*Sparta*
Zander, Lucile Trossen	*Brillion* —47

General Course

Ascano, Antionio Francisco se	*Tuguegarao, P. I.*
Conger, Lester William se	*Greenbush*
Daelhousen, Glenn	*Hannibal, Mo.*
Hirsig, Herron Albert	*Mount Horeb*
Hugunin, Marjorie Roberta	*Janesville*
Johnson, Elmer Benjamin	*Madison*
Kinnear, Kenneth Maxwell	*La Crosse*
Mahoney, David John	*Fond du Lac*
Molck, Arthur Henry se	*Milwaukee*
Ortega, Ricardo Maglanse se	*Tarlac, P. I.*
Peebles, William Smith, Jr.	*Lawrenceville, Va.*
Peters, Donald Edward se	*Waterloo*
Tafel, Olga Alma	*Louisville, Ky.*
Tobey, Paul Titus	*Wausau*

Course in Humanities

Bishop, Florence Marian se	*Arcadia*
Brennan, Elsie May se	*Lancaster*
Chapman, Dorothy Dee se	*Milwaukee*
Hilgemann, Theophilus Frederick	*Toledo, Ohio*
Irwin, John Scott	*Denver, Colo.*
Olson, Valerie Estelle	*Racine*
Tracy, Sterling Hill	*Memphis, Tenn.*

Juniors

Affeld, Christina McDonald	*Evanston, Ill.*
Albee, Vera Madeline se	*Waterford*
Albrecht, Karl Albert	*Appleton*
Alcorn, Flora Marie	*Ranger, Texas*
Alden, Mildred Doris	*Green Bay*
Alexander, Anne Ruth se	*Hayward*
Alschuler, Jacob Edward l	*Aurora, Ill.*
Anderberg, Pearl Amy se	*Colton, S. Dak.*
Andersen, Olga Fredrika se	*Madison*
Anderson, Dorothy Vesta	*Milwaukee*
Anderson, Mildred Victoria	*Winnipeg, Canada*
Anderson, Vera Clara	*Ashland*
Anding, Henry Moore	*Burlington, Iowa*
Ansfeld, Arnold Joseph l	*Milwaukee*
Arey, Miriam Gordon se	*Clinton, Iowa*
Aten, Helen Harper	*Madison*
Auerswald, Edgar Henry se	*Cochrane*
Austin, Grace Geraldine	*Madison*
Axley, Ralph Emerson l	*Seymour*
Babcock, Vera Mae se	*Mount Horeb*
Bachhuber, Alphons Eugene	*Mayville*
Bacon, Francis Philpott	*Madison*
Bahlert, Ruth Martha se	*Pound*
Bailie, Florence Eva	*Lancaster*
Baker, Rowe George m	*Tomahawk*
Baratz, Jacob Joseph m	*Madison*
Barber, Marion Childs	*Minneapolis, Minn.*
Barry, Catherine	*Cedar Rapids, Iowa*
Bartalome, Juanito Armanda	*Pila, Languna, P. I.*
Bauder, Donald Clinton	*Geneva, Ill.*
Bauman, Walter Edward	*Milwaukee*
Baxter, Dorothy Anne se	*Kansas City, Mo.*
Beattie, Minnie Dunn	*Memphis, Tenn.*
Beckman, Fred Christian	*Milwaukee*
Been, Paul	*Milwaukee*
Beffel, John Marshall, Jr.	*Milwaukee*
Bell, Douglas Bolton m	*Tomah*
Bell, Helen Kinsley	*Franklin, Pa.*
Bellows, Esther Katharine	*Evanston, Ill.*
Bennett, Doris Louise	*Madison*
Berg, Milton Eilef	*Onalaska*

Berger, Adolphus Arthur	*St. Joseph, Mo.*
Bergman, Roy Anthony	*Bark River, Mich.*
Berkwich, Helen Marian se	*Milwaukee*
Berryman, Romayne May se	*Elkhart, Ind.*
Bersing, Otis Silas	*Blair*
Bjornson, Marion L.	*LaMoure, N. Dak.*
Blattner, John William	*Sulphur, Okla.*
Blumer, Bertha J. J.	*Milwaukee*
Blumer, Martha m	*Milwaukee*
Bollinger, Elroy William se	*Sycamore, Ill.*
Bond, Russell Conwell m	*Wheeling, W. Va.*
Bonnet, Marie Louise	*Lemadges, France*
Bonnifield, Mary Alcinda	*Ottumwa, Iowa*
Boorman, Harvie James	*Wisconsin Rapids*
Bott, Herbert Joseph	*La Crosse*
Bowker, Ruth Boynton	*Morris, Ill.*
Boyden, Sidney Millard	*Chippewa Falls*
Brabant, Margaret Elizabeth se	*Marinette*
Brachman, Philip	*Milwaukee*
Brader, James Lyman	*Madison*
Bradish, Rachel Hall	*Ottawa, Ill.*
Brady, Kathryn Mary	*Quincy, Ill.*
Brant, Golda Mary se	*Hamilton, Ill.*
Breslauer, Nathaniel Pereles	*Milwaukee*
Bresler, Lillian Gabrielle	*Milwaukee*
Bridgman, Alma Louise	*Waupaca*
Brooks, Jesse Herbert	*Delavan*
Brown, Albert Harlan	*Ripon*
Brown, Elinor Martha	*Sioux Falls, S. Dak.*
Brown, Kenneth	*La Crosse*
Brown, Robert Whitcomb m	*Highland*
Brownell, Mary Alice se	*Madison*
Brundige, Lyla Ruth m	*Geneva, Ill.*
Bruske, Herbert Edward	*South Milwaukee*
Bryant, Mildred Leigh	*Wauwatosa*
Buell, Harold Clark	*Lake Geneva*
Bundy, Ethel Gwendolyn	*Detroit, Mich.*
Burgess, Carolyn Lee se	*Yankton, S. Dak.*
Burkhardt, Bertha Ehman	*Chicago, Ill.*
Burkhardt, Leona Florence	*Burkhardt*
Burnham, Henrietta	*Waupaca*
Burt, Roland Willard	*Chicago, Ill.*
Canuteson, Ralph Irving	*Madison*
Capps, Isabel LaVica se	*Brooklyn, N. Y.*
Carl, Norma Barbara	*Green Bay*
Carlisle, Vera	*Robinson, Ill.*
Carlson, Harry Vladimir	*Kenosha*
Calyle, Vera Thomas	*Madison*
Carr, Irma Harriett	*North Andover, Mass.*
Cattau, Louis William	*Shawano*
Cawley, Regina	*Wausau*
Cazier, Marion	*Chicago, Ill.*
Chandler, Marianna se	*Madison*

Chapman, Edwin James	*Oshkosh*
Chapman, Katherine Fay	*Platteville*
Chassee, Leo Jeannot	*Madison*
Cheatham, Vivian Ellison se	*Warrensburg, Mo.*
Cherry, James Crowell	*Kenilworth, Ill.*
Chipman, Mary Lynette	*Morrisonville*
Christoph, Earle	*Waukesha*
Churchill, Hannah Frances se	*Fairbury, Ill.*
Clauson, Elizabeth Bertha se	*Bloomer*
Clayton, Irene Albertine se	*Milwaukee*
Clemens, Violet Marie se	*Superior*
Cohen, Jesse	*Milwaukee*
Collins, Gertrude Elsie	*Rockford, Ill.*
Combacker, Howard Ridley	*Osceola*
Comstock, Erma Vesta se	*Madison*
Connor, Marion Victoria	*Madison*
Connor, Richard Malcolm	*Marshfield*
Cooley, Mary Esther se	*Jamaico, N. Y.*
Cordell, Elizabeth Miller J.	*Madison*
Cornelius, John Church	*Madison*
Cosgrove, Frances Elizabeth	*Madison*
Cover, Louise Anna	*Johnstown, Pa.*
Coveyou, Amil Demion	*Janesville*
Coyne, James Howard	*Madison*
Cramer, Lawrence William	*Milwaukee*
Cristman, Ezra Dormer	*Milwaukee*
Crozier, Everett Harvey	*Milwaukee*
Culver, Marian Gray	*Eau Claire*
Currie, Eleanor Elizabeth	*Duluth, Minn.*
Curtin, James Golden m	*Milwaukee*
Curtis, Lucile se	*Madison*
Darling, Lorenzo Lyman l	*Madison*
Darnstaedt, Herman Lester se	*Madison*
Deicher, Phil George	*Madison*
Delaney, Agnes Dorothea se	*Madison*
Demetropoulos, Nicholas Demetrius m	*Milwaukee*
Denlinger, Harold Adelbert se	*Dayton, Ohio*
Deopker, Muriel Katherine	*Kouts, Ind.*
Deutsch, Rose Irene	*Canton, Ill.*
Dickover, Ruth Beatrice	*Hammond, Ind.*
Dietsch, Leland Charles m	*Plymouth*
Dine, Locke Florence	*Milwaukee*
Dishmaker, Melvin Charles	*Algoma*
Dixon, Esther Margaret	*Elroy*
Dixon, Lala Alice	*Brandon*
Doerr, John Edward, Jr.	*Mt. Vernon, Ind.*
Dollard, Ellen Vivian	*Fond du Lac*
Doolittle, Kathryn Louise se	*Winnetka, Ill.*
Dopp, Dorothy Janet se	*Wild Rose*
Dorsey, George Allen	*Kenosha*
Dougherty, Mabel Maud	*Maplewood, N. J.*
Drake, Emmet Addis m	*Mendota*

Dresser, Helen Katherine	*Clinton*
Droege, Claus m	*Madison*
Droppers, Alice Louise	*Milwaukee*
Dull, Cecil Fay m	*Muscoda*
Dunn, Lorraine Ludington	*Madison*
Dvorak, Harold Joseph m	*Milwaukee*
Dynes, Madge Frances	*Mount Carroll, Ill.*
Eagleburger, Sidney Lawrence	*Waupun*
Edwards, Vivien Lynn	*Momence, Ill.*
Eisenberg, Louis Abraham m	*Milwaukee*
Ela, Emily Elizabeth	*Rochester*
Elder, Katharine Cecelia	*Keokuk, Iowa*
Elleson, LaVerne Ethel	*West Allis*
Ellis, Richard Winfield	*Evanston, Ill.*
Elser, Frieda Margaret se	*Beaver Dam*
Elser, Louise Helen se	*Beaver Dam*
Elver, Bernice Jeanette se	*Madison*
Emmerling, Margaret Emily	*Milwaukee*
Engelhard, Alfred Benjamin	*Chicago, Ill.*
Erbe, Margaret Priscilla	*Green Bay*
Erickson, Edgar Louis	*Durand*
Evans, Miriam Whelton	*Tulsa, Okla.*
Fagan, Robert Alvin	*Superior*
Fagg, Kenneth Stanley	*Alhambra, Cal.*
Feldman, Samuel S. se	*Sheboygan*
Fellows, Frank se	*Lodi*
Fellows, Iris Sophronia	*Stillwater, Okla.*
Felten, Rufus Benjamin se	*Milwaukee*
Fenelon, Dorothea Mary se	*Rhinelander*
Fenn, Alma Jeanette se	*Prophetstown, Ill.*
Fentress, Olivia Primrose	*Hubbard Woods, Ill.*
Fernberg, Babeth Grace	*Aurora, Ill.*
Fiedler, George Adolph m	*Holcombe*
Field, Blanche Knippenberg	*Madison*
Fishack, Albert Carlyle se	*Fort Wayne, Ind.*
Fisher, Florence Grace	*Livingston*
Fitch, Dorothy Helen se	*Hudson, S. Dak.*
Fitch, Logan Dallas l	*Madison*
Fitzgerald, John Bertram m	*Fond du Lac*
Fitzgibbons, Ida Kathryn se	*Monroe*
Flarity, Thomas Harold m	*Edgerton*
Fleming, Florence Charlotte	*Elkhart, Ind.*
Florin, Alvin Christian m	*Fountain City*
Forcum, Lois Bertha se	*Paris, Ill.*
Forney, Mary Allene	*Peoria, Ill.*
Fox, Elizabeth Frances	*Beloit*
Francois, Emily Genevieve se	*Brooklyn*
Frank, George Dewey	*Davenport, Iowa*
Frawley, Edward Joseph	*Eau Claire*
Fredrick, Harry Yoman m	*Westfield*
Freitag, Veronica m	*New Glarus*
Frey, Harold Alfred	*Madison*
Frick, Alice Elizabeth se	*Athens*

Friedbacher, Karl m	*West Allis*
Friedrich, Paul Edmond l	*St Charles, Mo.*
Fritsche, Oscar Otto	*Sioux Falls, S. Dak.*
Fuller, Albert Morse	*River Falls*
Fuller, Ruth Helen se	*Waterman, Ill.*
Gage, Leslie Richards	*Peoria, Ill.*
Galpin, Alfred, Jr.	*Appleton*
Gangelin, Paul	*Madison*
Gardner, William McHard	*Huron, S. Dak.*
Geiger, Aliene Jeanette	*Monroe*
Geller, Helen Henrietta se	*Muscoda*
Gertz, Michal Alexander m	*Hurley*
Gibbon, Hannah Mabel se	*Madison*
Gilbert, Theodore Markly, Jr.	*Neenah*
Gill, Earl Francis	*Madison*
Gillis, Archie Edward m	*Antigo*
Gilmore, Eugene Allen, Jr.	*Madison*
Gilmore, John Frederick	*Chicago, Ill.*
Glascock, Eleanor Elizabeth	*Upperville, Va.*
Gold, Bessie	*Berlin*
Goldberg, Irving m	*Milwaukee*
Gombar, Francis Sutherland	*Brodhead*
Goodell, Alice Maud se	*Monroe*
Goodenow, Florence Brown	*Berlin, Mich.*
Goodyear, Carol Marston	*Madison*
Goodyear, Esther Charles se	*Wichita, Kans.*
Gower, Dorothy Emma se	*Odell, Ill.*
Graves, Eleanor Warren	*St. Louis, Mo.*
Gray, Nellie June	*Delavan*
Greene, Gladys Ellaleine se	*Kansas City, Mo.*
Gregory, Horace Victor	*Milwaukee*
Gregory, Seth Harwood	*Delavan*
Griffith, Cunningham LeRoy	*Madison*
Griffith, Francis Willard	*Beloit*
Grimes, Katherine Helen	*Des Moines, Iowa*
Groan, Martha Ayleen se	*Dallas, Texas*
Groth, Edna Rose se	*Jackson*
Gude, Helen Dorothy se	*Davenport, Iowa*
Guentzel, Mildred Emma	*Boscobel*
Gundersen, Trygve	*La Crosse*
Gute, Edwin Bertram m	*Milwaukee*
Haasl, Caroline Gertrude	*Milladore*
Haber, William	*Milwaukee*
Haigh, Frederic Warren	*Madison*
Hall, Theodore Foxon	*Detroit, Mich.*
Halladay, Gertrude Jane se	*Salem*
Halline, Allen Gates	*Brooklyn, N. Y.*
Halverson, H. Jeanette	*Madison*
Halverson, Lynn Harvey	*Madison*
Hamilton, Arthur Clay	*Aurora, Ill.*
Hance, Lyle Stanley	*Pasadena, Cal.*
Hansen, Abner se	*Edgerton*
Harley, Gertrude Ruth	*Madison*

Harpster, Mildred Avanelle	*Akron, Ohio*
Harrington, Earl Thomas	*Milwaukee*
Harris, Esther Jeanette	*Cuba City*
Harris, Robert Austin	*Oak Park, Ill.*
Harris, Ross Weber se	*Viroqua*
Hart, Elizabeth Jane se	*Waupaca*
Hartman, Leone Anne	*Madison*
Harvey, Frances Lucile	*Grand Rapids, Mich.*
Haven, Gertrude Jewella B.	*Stoughton*
Hawks, Mildred Elene se	*Milwaukee*
Hawks, Ralph Eli	*Horicon*
Hawley, Grace Gillian	*Elgin, Ill.*
Hayes, Ellen Marie se	*Cambridge*
Hayes, Ramona Sarah	*Madison*
Hays, Lillian Blanche se	*Richland Center*
Hazard, Williametta Sylvia	*Sioux Falls, S. Dak.*
Hazen, George Brewster	*Peoria, Ill.*
Head, Eleanor Bushnell	*Madison*
Heald, Benjamin Franklin	*Sheboygan Falls*
Heath, Harold John	*Portage*
Heim, Marie Teresa	*Madison*
Heimdal, Clarence Oliver m	*Minneapolis, Minn.*
Heller, Gertrude Marie	*Milwaukee*
Hempe, Edna	*Milwaukee*
Henderikson, Sheldon Oliver	*Virginia, Minn.*
Henderson, Napier Ambrose	*Madison*
Hendra, Christopher	*Madison*
Hendrickson, Hilda Ovidia se	*Portland, Oregon*
Henry, Irene se	*Huntington, W. Va.*
Hess, Edith	*Council Bluffs, Iowa*
Hildreth, Miles Carroll	*Madison*
Hjelvik, Ingeborg	*Merrill*
Hobbins, William Suhr	*Madison*
Hofacker, Henry August	*Plum City*
Hogan, Mildred Elsie	*Madison*
Hohlfeld, Karl Voss	*Madison*
Hohlfeld, Rudolf Libbert	*Madison*
Holland, Thomas Willard	*Big Rapids, Mich.*
Holt, Lyla Amelia se	*Cambridge*
Holt, Orley Crocker	*Waukesha*
Holzman, John Henry	*North Freedom*
Hooey, Clifford Kile	*Rice Lake*
Hooper, Catherine Seaton	*Janesville*
Hooper, Majil	*Oshkosh*
Hoover, Helen Grace	*Uniontown, Pa.*
Hornaday, Sarah Josephine	*Indianapolis, Ind.*
Hosmer, Electra Lucille	*Romeo, Mich.*
Hovde, Helen Anne	*Des Moines, Iowa*
Hubbard, Warren Sydney	*Shabbona, Ill.*
Hughes, Frances Mary se	*Downers Grove, Ill.*
Hullinger, Katherine	*Chicago, Ill.*
Hunter, Frank Whetzel	*Fox Lake*
Hunter, Margaret Mary	*Milwaukee*

Hupprich, Florence Louise se	*Madison*
Husting, Nathaniel Bonduel	*Oshkosh*
Hyde, Elmer Harold	*Milwaukee*
Ingold, Harry Johnson, Jr.	*Appleton*
Ingraham, Dora Virginia se	*Milwaukee*
Ising, Lucille	*Oshkosh*
Jacobs, Esther Gertrude	*Stevens Point*
Jacobson, Edna Louise	*Madison*
Jandell, Eula Marie se	*Milwaukee*
Jensen, Alfred Harold	*Madison*
Jenson, Viola Leonora se	*Madison*
John, Frederic Charles l	*Milwaukee*
Johnson, Edward Wallace	*Madison*
Johnson, Elizabeth Hopkins	*Madison*
Johnson, Ethel Elizabeth	*Sparta*
Johnson, Gertrude Dorothy	*Rockdale*
Johnson, Marian Frances	*Beloit*
Johnson, Norman Lincoln	*New Ulm, Minn.*
Johnson, Stella Cornelia	*Eau Claire*
Jones, Dorothy Mae se	*Bangor*
Jones, Enos Gray l	*Sioux Falls, S. Dak.*
Jones, Eulalia	*Turtle Creek, Pa.*
Jones, Genevieve Ross se	*Madison*
Kaderbeck, Erwin Joseph m	*Manitowoc*
Kaeppel, Geraldine Dorothy se	*Chicago, Ill.*
Kao, Yuan	*Peking, China*
Karel, Karl Francis	*Kewaunee*
Kasbeer, Helen Harriett se	*Normal, Ill.*
Katowitz, Harry James l	*Kenosha*
Kauffman, Janice Meredith se	*Princeton, Mo.*
Keen, Katherine Eve	*Harrisburg, Pa.*
Kehl, Gertrude Maude se	*St. Louis, Mo.*
Kehrein, Harold Clarence m	*Milwaukee*
Keller, Oswald Lewin	*Madison*
Kelly, Hazel Mary se	*Superior*
Kempton, Willett Main	*Madison*
Kenney, Dora Catherine	*Milwaukee*
Kerwin, Ursula Frances Maria se	*Silver Lake*
Kiessling, Oscar Edward	*Jefferson*
King, Margaret Andrews	*Cleveland, Ohio*
Kirk, Elizabeth	*New Castle, Pa.*
Kneall, Louella Holles	*Pontiac, Ill.*
Knowlan, Viola Marie se	*Green Bay*
Knowles, Alice May	*Sioux Falls, S. Dak.*
Koch, Lawrence Gerald	*Appleton*
Koehler, Ellinor Margaret	*Milwaukee*
Koeneman, Doris Hertha	*Mexico City, Mexico*
Kotinsky, Ruth	*New Orleans, La.*
Krebs, Dorothy	*St. Louis, Mo.*
Krebs, Elizabeth Thelma se	*Berlin*
Kroner, Julia Isabelle se	*La Crosse*
Krueger, Ella Louise	*Stevens Point*
Kubly, Louise Florence se	*Monroe*

Kuttler, Virginia Bel	*Bribune, Kans.*
Kyle, Charles Cuscaslen	*Menomonie*
Lacey, James Theopholis, Jr. m	*Madison*
Lahmann, Albert Henry	*Milwaukee*
Lamb, Leslie Francis	*Madison*
Lamson, Clara Louise	*Fairfield, Iowa*
Lane, Laura Godbey	*Madison*
Larson, Sylvester	*Superior*
Lau, Norbert John	*Hartford*
Laughlin, Harold Donald	*Oshkosh*
Lawless, Mary Margaret	*Fond du Lac*
Leader, Dorothy Estella	*Superior*
Leitz, Frank Bantley se	*Los Angeles, Cal.*
Lemcke, Carl Julius	*Merrill*
Lepkovsky, Charles Albert l	*Kenosha*
Leshin, Norman m	*Milwaukee*
Letcher, Gwendolyn Muriel se	*Madison*
LeVeille, Allyn Louis	*Ladysmith*
Levin, Harry Maurice m	*Chicago, Ill.*
Lewis, Ivanelle Clarice se	*Lancaster*
Licking, Ralph Herbert se	*Milwaukee*
Liebl, Florence Irene	*Mason City, Iowa*
Ligare, Alice Louise	*River Forest, Ill.*
Luecker, Elmer William	*Brillion*
Lund, Alf	*Eau Claire*
Lunney, Julien Mandelert	*Chippewa Falls*
Lynaugh, Sabina Mary	*Madison*
Lynch, Henry Grattau	*Superior*
Lyon, Washburn Stark	*Milwaukee*
McCaffrey, Maurice Henry m	*Madison*
McCandless, Lee	*Davenport, Iowa*
McCormick, Stuart Alexander n.	*Madison*
McDonald, Helen Marion	*Beaver Dam*
McGinley, Eleanor Dorothy	*Milwaukee*
McGormley, Myra M.	*Maumee, Ohio*
McGuire, Harry Joseph m	*Waunakee*
McKone, Irene Catherine se	*Green Bay*
McLandress, Helen Sarah se	*Stevens Point*
McLay, Marion Barlass	*Janesville*
McLean, Mary Wilson	*Menomonie*
McMurry, Harry Lee	*Bloomington, Ill.*
McMurry, Howard Johnstone	*Madison*
McNair, Ralph	*Brodhead*
MacQuarrie, Gordon	*Superior*
McReynolds, Cora Seville	*Manitowoc*
Mackin, Beda Roberta	*Madison*
Mahan, Edith	*Superior*
Mainland, Esther Florence	*Oshkosh*
Mallari, Ismael	*Manila, P. I.*
Maloney, Evelyn Laura	*Fond du Lac*
Malsin, Helen Jane se	*Merrill*
Maltpress, Seymour Lee	*Edgerton*
Marquart, Philip Butler se	*Milton Junction*

Marquetta, Arthur Frederick	*Indianapolis, Ind.*
Martin, Theodore John	*Madison*
Martner, Helen Erwine	*Prairie du Chien*
Marvin, Arthur Donald	*Beaver Dam*
Matteson, Beatrice Elizabeth se	*Clintonville*
Maxcy, Grace Louise	*Washburn*
Mead, Dayton Richard	*Marinette*
Mead, Edwin	*Marinette*
Mead, Wilhelmina Elizabeth se	*Merrill*
Melvin, Roy Earl	*Schofield*
Meulemans, August Martin	*West Wrightstown*
Meyer, Catherine Marie	*Oak Park, Ill.*
Meyer, Dorothy Caroline se	*Hastings, Minn.*
Meyer, Ovid Otto m	*Rosholt*
Meyne, Margaretha Isabella se	*Hortonville*
Miller, Doris Diana	*Whitewater*
Miller, Earl W.	*Hopkins, Mo.*
Miller, Estelle Brown se	*Kansas City, Mo.*
Miller, Florence Vida	*Milwaukee*
Minch, Helen Marie	*Belleville*
Mittelstadt, Paula Elizabeth	*Winside, Nebr.*
Moe, Ralph Ray	*Duluth, Minn.*
Moehlenpah, Marion	*Clinton*
Moore, Clara Louise	*St. Cloud, Minn.*
Moore, George Winfred	*Superior*
Moran, Mary Martha	*Milwaukee*
Moran, Madeline Lucille	*Superior*
Moroney, Robert Emmet	*Dallas, Texas*
Morris, Ada Josephine se	*Rice Lake*
Morris, Robert Floyd	*Cambria*
Morrow, Inez Evelyn se	*Hinsdale, Ill.*
Morse, Wayne Lyman l	*Madison*
Moses, Doris Maud	*Delavan*
Moyer, Louise Patricia	*Rockford, Ill.*
Muehlberger, Edna Rose	*Hammond, Ind.*
Mulhall, Evelyn Beatrice	*Sioux City, Iowa*
Mullon, Vance Spencer	*Chicago, Ill.*
Munson, Thenora	*Stoughton*
Murdoch, Harell A.	*Chicago, Ill.*
Nelson, Edith Evelyn se	*Oshkosh*
Nelson, Louis Ellsworth se	*Superior*
Nemeroff, Sylvia Ruth	*Chicago, Ill.*
Nerdrum, Ruth Alfreda se	*Madison*
Nesbit, Mark Edwin	*Pleasantville, N. Y.*
Nethercutt, Audrey Margaret	*Superior*
Newell, Douglas Kinney	*Kenosha*
Newell, Virginia	*Eau Claire*
Newsome, Verna Louise	*Waupaca*
Nicolai, Martha se	*Milwaukee*
Nimlos, Mary Ruthella	*Madison*
Nimlos, Myrtle Iona	*Madison*
Norton, Eleanor Mae	*Algona, Iowa*
Nuzum, Thomas Ochsner m	*Janesville*

Nyberg, Nan	*Wakefield, Neb.*
Nyhus, Walter Edmund	*Chippewa Falls*
Ochsner, Stanley Edward	*Prairie du Sac*
O'Connor, May Frances se	*Belvidere, Ill.*
O'Laughlin, Francis Daniel	*Madison*
Olson, Harold Dewey	*Hudson*
Orton, Miriam Rockwood	*Darlington*
Outhouse, Alice Irene m	*Madison*
Oviatt, Marjorie Annabel	*Columbus*
Owen, Laures Margaret se	*Madison*
Ozanne, Herbert Kellogg	*Ashland*
Paddock, Mary Threadgold	*Pana, Ill.*
Page, Arlene Lenora	*Elkhorn*
Parkhill, Ruth Willard	*Chicago, Ill.*
Paroni, Anthony	*Piedmont, Cal.*
Parr, Dola Evangeline	*Eau Claire*
Parsley, Cleo M.	*St. Louis, Mo.*
Parson, Eleanor	*De Kalb, Ill.*
Patrick, Dorothy Harris	*Chicago, Ill.*
Patterson, Helen Virginia	*Appleton*
Patterson, Margaret Mary	*Bloomington*
Paull, Helen Grace se	*Woodruff*
Pearson, Gertrude Emery	*Portage*
Pease, Leila Livermore	*Memphis, Tenn.*
Pendergast, Emily Marie se	*Charleston, Ill.*
Pennock, Elizabeth Gordon	*Urbana, Ohio*
Perchonok, Seymour Frank	*Milwaukee*
Perrodin, Chester Alexander m	*Wisconsin Rapids*
Perstein, Frances Ruth	*Madison*
Peterman, Leila Henrietta	*Merrill*
Peters, Mary Adeline	*Birmingham, Ala.*
Peterson, Mary Marquardt	*Madison*
Peterson, May Marguerite	*Sterling, Ill.*
Peterson, Victor	*Washburn*
Pfeiffer, Albert Herman	*Madison*
Pflueger, Grace Marion	*Manitowoc*
Piggot, Harvey Brown	*River Forest, Ill.*
Pinkerton, Harold Allen m	*Waupaca*
Platt, Frank Bertram m	*St. Paul, Minn.*
Platten, Peter Michael	*Green Bay*
Polasky, Berenice Belle	*Kalamazoo, Mich.*
Prehn, Fred C. m	*Wausau*
Pribnow, Mildred Hildegarde se	*Virginia, Minn.*
Price, Hobart Candee	*Kenosha*
Prideau, Nettie Gertrude	*Mineral Point*
Puchner, Ralph Edward	*Edgar*
Puestow, Charles Bernard m	*Oshkosh*
Rabbitt, Ina Verle	*Viroqua*
Rapp, Helen	*Santa Fe, N. Mex.*
Rathert, Charles Edward	*Chilton*
Rawson, Charles Albert	*Portage*
Rector, Albert Clayton	*Appleton*
Reilly, Ruth Kathleen se	*Fond du Lac*

Rellahan, John Joseph	*Stevens Point*
Reno, John Christmas	*Spooner*
Replinger, Mildred Ruth	*Madison*
Reppen, Nels Oliver	*Dane*
Rhenstrom, Eric Vernon	*Kenosha*
Richards, Inez Jennette se	*Ladysmith*
Richards, John Willis	*Madison*
Richter, Marion Christine	*Yakima, Wash.*
Rickeman, Louise Elliott	*Galena, Ill.*
Rimbach, Frances Isadelle	*Newtonville, Mass.*
Rinder, Elsbeth Violet	*Madison*
Risberg, Earl Livingston	*Cumberland*
Risser, Frederic l	*Fountain City*
Ritchie, Gorton	*Chicago, Ill.*
Rivard, Raymond Robert m	*Madison*
Roberts, Ethel Lillian	*Madison*
Robinson, Marion Dorothy	*Wheaton, Ill.*
Rockwell, Helen Louise se	*Oshkosh*
Roderick, Dorothy Evelyn	*Madison*
Rollefson, Almar Hermo	*Superior*
Romberg, Henry August m	*Clintonville*
Rosenthal, Jeanette Hannah	*La Porte, Ind.*
Rosentreter, Frederick William se	*Oshkosh*
Ross, Julia Ann se	*Richland Center*
Rothenburg, Robert Daline	*Springfield, Minn.*
Rothschild, Helen Gardner	*Madison, S. Dak.*
Rowley, Margaret Leone	*Madison*
Rubel, Henry Scott	*Bright Waters, L. I., N. Y.*
Rud, Natalie	*Chicago, Ill.*
Ruffalo, Anthony	*Racine*
Ruggles, Ruth Mary	*Wausau*
Russell, Margaret Adelaide	*Superior*
Russell, Roger Bridgford	*Madison*
Rutlege, William Wallace	*Rockford, Ill.*
Sadoff, Harry m	*Milwaukee*
St. Thomas, Gaylord Frederick se	*Birnamwood*
Sammis, Malvena Elizabeth wls	*Madison*
Sanborn, Katherine Yates	*Madison*
Sander, Leone Frances	*St. Louis, Mo.*
Sanford, Eleanor Roberts	*La Crosse*
Sarles, John Hallock	*Madison*
Sanders, Benjamin Walker	*Oregon*
Schaefer, Mildred Lillian	*Milwaukee*
Schaefer, Viola Velma	*Milwaukee*
Schafer, Elizabeth Eleanor se	*Madison*
Schalk, Ella Martha	*Berlin*
Schee, John Huston	*Des Moines, Iowa*
Scheen, Hjoerdis Virginia	*Princeton, Minn.*
Scheinpflug, Ralph Kenneth se	*Roscobel*
Schenck, Florence Carolyn	*Madison*
Schidlo, Raymond Arthur	*Westfield*
Schlichting, Louise Augusta	*New York, N. Y.*
Schlimgen, Esther Julia	*Madison*

Schlosser, Helen Elizabeth	*Wauwatosa*
Schmidt, Samuel Frederick	*Madison*
Schneider, Marie Antoinette	*Two Rivers*
Schneider, Myrtle Dorothy	*Madison*
Schneider, Rufus Anton m	*Marathon*
Schnell, Fred	*Portage*
Schoenfeld, Russel DeForest	*Edgerton*
Scholl, Maynard Michael	*Fond du Lac*
Scholten, Adrian Herman	*Valley Springs, S. Dak.*
Schreiner, Sigrid Alette se	*La Crosse*
Schroeder, Annieta Harms	*Milwaukee*
Schroeder, Florence Marie	*Milwaukee*
Schubring, Irene Marie	*Madison*
Schulz, Paul William m	*Sheboygan*
Schweizer, Florence Catherine se	*La Crosse*
Scott, Ralph Vernon	*Hardin, Mont.*
Sellers, Liona Minnie	*Pipestone, Minn.*
Severance, Clare McHenry se	*Madison*
Severance, Marjorie Reum	*Milwaukee*
Shafer, Helen Frances	*Wauwatosa*
Shaner, Deborah Ione	*Philadelphia, Pa.*
Shapiro, Herman Joseph l	*Madison*
Sharp, Ralph Willis se	*New Lisbon*
Shear, Mary Beatrice se	*Rosslyn, Va.*
Sherman, Elsie Besley	*Madison*
Sholes. Elizabeth Latham	*Cranford, N. J.*
Shoults, Worth Edward	*Alexandria, Va.*
Sickels, Dorothy	*West Nyack, N. Y.*
Sickels, Margaret Baur	*Milwaukee*
Siegmeyer, Irmgard Emma se	*Milwaukee*
Simpson, Lucille	*Fort Wayne, Ind.*
Sinaiko, Abraham m	*Madison*
Smith, Aline Parry	*Milwaukee*
Smith, Carl Richard	*Superior*
Smith, Ellen Wrenne	*Green Bay*
Smith, Leonard Marshall m	*Oshkosh*
Smith, William Marshall m	*Oshkosh*
Smith, William Stuart	*Appleton*
Soref, Samuel Meyer	*Milwaukee*
Spear, Osmund se	*Lyons, Ind.*
Sperl, Norman Michael	*Plymouth*
Spielman, John Vania	*Madison*
Sprain, Adolph William	*West Salem*
Staudenmayer, Helen Aldytle	*Portage*
Steeholm, Hardy	*Madison*
Steenberg, Alice Marie	*La Crosse*
Steidtmann, Waldo Edward	*Sauk City*
Stein, Frances	*Milwaukee*
Steinberg, Morton Haskell	*Traverse City, Mich.*
Stevens, Myron Ray	*Madison*
Stevning, Emma Gertrude	*Stephen, Minn.*
Stewart, James Jewell	*Madison*
Stewart, Robert Bruce	*Madison*

Stilwill, Helen Katherine	*Sioux City, Iowa*
Stolte, Florence French se	*Reedsburg*
Strande, Avice Marie se	*Elroy*
Strathman, Stuart Henry	*Lake Park, Iowa*
Stratz, Leona Emma se	*Fond du Lac*
Stuckey, Helen Elisabeth	*Rockford, Ill.*
Stuve, Almyra Lillian se	*Humbird*
Suhr, Alfred Louis m	*Milwaukee*
Sullivan, Samuel John m	*Madison*
Sumner, Willard Carlyle	*Madison*
Suppiger, Edith Beatrice se	*Highland, Ill.*
Suzuki, Tokitaro	*Oahu, T. H.*
Swartz, Miriam Aileen	*Gary, Ind.*
Swensen, Helen Margaret	*Madison*
Swensen, Joel	*Eau Claire*
Tallmadge, Guy Kasten m	*Milwaukee*
Tannewitz, William Joseph se	*Madison*
Tatman, Phyllis Wright se	*Kirkwood, Mo.*
Thompson, John Cameron l	*Oshkosh*
Thoren, Florence Marie se	*Rock Grove, Ill.*
Thorkelson, Mary Elizabeth	*Madison*
Thorpe, Ariel Paulsen	*Chicago, Ill.*
Tolerton, Robert Israel	*Alliance, Ohio*
Tousley, Evelyn Victoria	*E. Cleveland, Ohio*
Tredwell, Thomas Alanson	*New York, N. Y.*
Trettien, Helen	*Toledo, Ohio*
Trolander, N. Evelyn	*Alborn, Minn.*
Trotter, Isabel Janet	*Virginia, Minn.*
Trowbridge, Frederick Newell l	*Viroqua*
Tuan, Mao Lan	*Yinshang, China*
Tucker, Freda Dean	*Claypool, Ind.*
Tuckerman, Gustavus	*St. Louis, Mo.*
Tully, Esther Carol	*Modesto, Cal.*
Turgeson, Fletcher m	*Richland Center*
Turner, Beatrice Chauteau	*St. Louis, Mo.*
Turney, Katharine Elizabeth	*Fairfield, Iowa*
Tuttle, Agnes Neubauer se	*Madison*
Tuttle, Elizabeth Sarah	*Shullburg*
Tuttle, Fordyce Eddy	*Madison*
Tyler, Kathleen Lucille	*Glidden*
Usher, Frederick R.	*Stoughton*
Van Ornum, Harry James	*Racine*
Vastine, Blanche Adelia	*Oak Park, Ill.*
Vial, Mary Helen	*La Grange, Ill.*
Wadmond, Ruth Elizabeth	*Delavan*
Walker, Alfred Edwin	*Hinsdale, Ill.*
Walker, Howard McKinley	*Madison*
Wall, Arthur Raymond	*Antigo*
Wallesz, Selma	*Milwaukee*
Walsh, Bernadette Elizabeth	*Madison*
Waltemath, Harry Arthur	*North Platte, Nebr.*
Wang, Yeats	*Wuhu, China*
Ward, Gilbert E.	*Fond du Lac*

Watson, Ernest Starr m	*Whitewater*
Webber, Gladys Irene	*Gary, Ind.*
Webster, Henrietta Hentze se	*Milwaukee*
Weeks, Albert William	*Chilton*
Weeks, Archie Schneider	*Chilton*
Weinstock, Aimee Lenice	*Milwaukee*
Werrell, William Alexander	*Janesville*
Werth, Grace Amelia se	*Markesan*
Westoyer, Della Cecil se	*Groton, S. Dak.*
Whaley, Julian Charles	*Benton*
Wheeler, Pearl Elizabeth	*Superior*
White, Ruth Virginia	*River Falls*
White, Wallace Beecher m	*Burlington*
Whiting, Marion Bell	*Yellow Springs, Ohio*
Will, Robert James se	*Waukesha*
Willett, Howard Kline	*Plainfield, N. J.*
Williams, Dorothy Frances	*Chicago, Ill.*
Williams, Rolland Franklin se	*Edgerton*
Wimmler, Mildred Frieda se	*Cleveland*
Wiswell, Mary May	*Elkhorn*
Wocasek, Frances Josephine se	*Great Falls, Mont.*
Wolfert, Agnes Catherine	*Lena*
Wolff, Frank Lewis	*Fond du Lac*
Woo Tsi Tsa	*Shanghai, China*
Wurth, Walter	*Madison*
Yabroff, Leah se	*Sun Prairie*
Yerly, Francis Everett	*La Crosse*
Yivisaker, Erling	*Zumbrota, Minn.*
Yost, Harrington Graham	*Mosinee*
Young, Adelbert Jacob se	*Merrill*
Youngquist, Seth Charles	*Madison*
Yunger, Elsa Koenig	*Milwaukee*
Zalewski, Anthony Edward m	*Milwaukee*
Zeuch, Katherine Feele	*Davenport, Iowa*

Course in Commerce

Abramofsky, Edward August	*Madison*
Allen, Daniel Lawrence	*Oshkosh*
Allen, Harris Gibbs	*Madison*
Anderson, Elmer Walter	*Duluth, Minn.*
Anderson, Orvin Henry	*Janesville*
Anderson, Victor Christian	*Oshkosh*
Anstey, Mabel Elizabeth	*Beetown*
Aschenbrener, Edmund Lawrence	*Park Falls*
Augustine, Harry Ferdinand	*Sturgeon Bay*
Axtell, Victor Vern	*Madison*
Aylward, Arthur William	*Madison*
Ayres, Marion Eloise	*Oak Park, Ill.*
Bacon, Wayne Buell	*Superior*
Bailey, Jennie Dynes	*Elgin, Ill.*
Bailey, Mary Dynes	*Elgin, Ill.*
Balch, Harry William	*Madison*
Bartlett, George William	*Racine*

Bates, Wilfred Bartlett, Jr.	*Madison*
Below, Martin Paul	*Oshkosh*
Benedict, Marion Elias	*Neillsville*
Bidwell, Myron Clarence	*Stevens Point*
Bieber, Peter Edgar	*La Crosse*
Birdlebough, Everett Walter	*Winona, Minn.*
Blair, Cameron Alexander	*Plainfield*
Blakeman, Robert Irvine, Jr.	*Indianapolis, Ind.*
Blum, Albert Edward	*Monticello*
Boese, Martha Marie	*Ripon*
Bollenbeck, Roman William	*Madison*
Boning, Herbert Edward, Jr.	*Milwaukee*
Bork, Herbert Arnold	*Milwaukee*
Bossard, George Grant	*Black Earth*
Branch, Philip Christopher	*Prentice*
Brandenburg, Wesley Wellington	*La Crosse*
Brandt, Clarence Albert	*Fennimore*
Breitenstein, Melvin Addison	*Stevens Point*
Breyer, Donald Percy	*Waupun*
Brill, Lawrence Arthur	*Milwaukee*
Burney, Robert Levi	*Madison*
Buxton, James Clifford	*Platteville*
Cantwell, Arthur Allen	*Shawano*
Cape, Mary Josephine	*Madison*
Cardinal, Fred Deane	*Ladysmith*
Carroll, Charles Kinzie	*Richland Center*
Chase, Lucius Peter	*Madison*
Cheli, Peter	*Calumet, Mich.*
Christianson, Arthur William	*Cambridge*
Christianson, Herbert Otto	*Cambridge*
Clark, Lawrence Holcombe	*Waukesha*
Cohen, Leo	*Park Falls*
Conlin, John Vincent	*Madison*
Costello, Lorenz	*Eau Claire*
Crosby, Harry Leonard	*Coggon, Iowa*
Cross, Wilson McGinnis	*Geneva, Ind.*
Currier, Edward Haines	*River Falls*
Daily, John Everton	*Milwaukee*
Delbridge, Marjorie Anne se	*Marinette*
Denig, Herbert Dave	*Burlington*
Doehler, Edward John	*Kewaunee*
Drought, Ralph James	*Milwaukee*
Edelson, Nathan	*Oshkosh*
Egan, Veronica	*Highland*
Ely, Robert Gilman	*Kenilworth, Ill.*
Engelke, Raymond Leslie	*Ashland*
Engler, Henry Alfred	*Waukesha*
Evenson, Charles Robert	*Baraboo*
Fechtner, Elmer Julius	*Merrill*
Fehlhaber, Orville Walter	*Wausau*
Felix, Katherine	*Prairie du Sac*
Fenisyn, Michael Joseph	*Marinette*
Field, William Alexander, Jr.	*Chicago, Ill.*

Fisher, Charles Theodore	*Madison*
Flinn, Edith Mildred	*Baraboo*
Fowler, Donald Hyde	*Superior*
Franz, Walter Bernhard	*Milwaukee*
Frawley, James Russell	*St. Croix Falls*
Freytag, Arthur	*Chicago, Ill.*
Fry, Harold George	*Beloit*
Fuchs, Kurt	*Janesville*
Fuller, Henry Chester	*Whitewater*
Gallagher, Don Francis	*Madison*
Gardner, George Eddy	*Fargo, N. Dak.*
Gates, Claude Allan	*Walworth*
Gates, George Baumann	*Racine*
Gaustad, Einar H.	*Eau Claire*
Gerhauser, Frank Eugene	*Madison*
Gesteland, Elmer Raymond	*Janesville*
Gibbon, Alexander Myron	*Oshkosh*
Giles, Claude Raymond	*Madison*
Gill, Corrington Calhoun	*Grand Rapids*
Gillespie, Winifred Lawrence	*Baileys Harbor*
Goessling, Alfred Charles	*Milwaukee*
Goodhue, Katherine Doris	*Edson, Kans.*
Grashorn, Robert Edgar	*Sheboygan*
Greenwood, Fred Charles	*Lake Mills*
Greiling, Sidney Myron	*Green Bay*
Gulson, James Arthur	*Black Earth*
Halverson, Norman Mortimer	*Blair*
Hansen, Hersey	*Ashland*
Harrington, Julia Anne	*Madison*
Harrington, Veronica Mary	*Madison*
Harvey, Robert Wayne	*Oconto*
Hatch, Vernon Victor	*Eau Claire*
Headley, Richard Mayfield	*Chicago, Ill.*
Heller, Louis Victor	*Milwaukee*
Heuer, Wilbur James	*Milwaukee*
Hill, Leslie Alexander	*St. Croix Falls*
Hoffman, Herman Miller Jacoby	*Terre Haute, Ind.*
Hoffman, Leslie John	*Madison*
Hook, Joseph Porter	*Oak Park, Ill.*
Hopkins, Milo	*Brooklyn*
Hughes, Morton Palmer	*Madison*
Huseby, Gordon Arnold	*Madison*
Inman, Charles Arthur	*Whitewater*
Iversen, Elsie Marie	*New Holstein*
Janssen, Victor Ernst	*Mayville*
Johnson, Ardin Llewelyn	*Wautoma*
Johnson, Oliver Joseph	*Eau Claire*
Johnson, William Leonard	*Stanley*
Jungers, Victor Francis	*Grafton*
Kaems, Milton Albert	*Sheboygan*
Kalley, Sylvester George	*Racine*
Kappers, Lloyd	*Eau Claire*
Kaufmann, Otto Frederick	*Sheboygan*

Kelly, George	*Superior*
Kelly, Julius	*Sturgis, S. Dak.*
Kessler, Alfred Ferdinand	*Watertown*
Kidder, Walter Stanley	*Madison*
Kiekhofer, Margaret Adelia	*Milwaukee*
Killam, Maude Marie	*Milwaukee*
Kirmse, Walter August	*Marinette*
Kirscher, Galen Paul	*River Falls*
Klein, Herbert Washington	*West Bend*
Klumb, George Alfred	*Wiggins, Miss.*
Knowles, Harold Frederick	*Tomah*
Kuebler, Walter Leroy	*Viroqua*
Kuehne, Otto Franz	*Kaukauna*
Lang, Sidney James	*Madison*
Larson, Ralph Elliott	*Madison*
Leean, LaRoy Melvin	*Scandinavia*
Lewis, Robert Crego	*Milwaukee*
Linke, Blaine M.	*Beloit*
Lins, Angeline Genevieve	*Spring Green*
Long, Dorothy Helen	*Madison*
Luther, Arleigh James	*Grantburg*
McCarthy, Eugene James	*Flandreau, S. Dak.*
McKeever, Blanche Lowrie	*Wilmington, Del.*
Madden, William James	*Sawyer*
Mallin, Max Weinstein	*Milwaukee*
Mears, Claude Axtell	*Pepin*
Melham, Thomas Walter	*Watertown, S. Dak.*
Meyer, Adeline Josephine 1	*Madison*
Meyers, Gladys Anna	*Madison*
Millman, Deane Andrew	*Platteville*
Millman, Donald Simons	*Platteville*
Mills, Dudley John	*Black River Falls*
Moeller, Frithjof	*Iola*
Moeller, Peter Rudolph	*Milwaukee*
Mokrejs, John	*Cedar Rapids, Iowa*
Montgomery, William England	*Stanley*
Moran, Martin Emmet	*Superior*
Morey, Donald Jackson	*Racine*
Nee, Mary-Jeanette	*Escanaba, Mich.*
Nelson, Manfred	*Superior*
Newcomb, Don Carlos	*Waupun*
Nichols, Lee Brownell	*Milwaukee*
Nickel, Walter John	*Sheboygan*
Norman, Einar John	*Superior*
Oakey, William Alfred	*Madison*
Okerstrom, Paul John	*Port Wing*
O'Neil, Margaret Adelaide	*Madison*
Osterndorf, Fred Peter	*Wonewoc*
Oyen, Hjalmer Selmar	*Stoughton*
Peterson, Ephraim Lucius	*Stockholm*
Pieh, William John	*Madison*
Pratt, Percy Lawrence	*Madison*
Preston, Herbert Wallace	*Bloomingburg, Ohio*

Purves, John Hughes	*Appleton*
Ralph James	*Madison*
Ransom, Eunice Rae	*Fennimore*
Rathert, Donald Everett	*Cresco, Iowa*
Reichert, Stephen Barnhardt	*Duluth, Minn.*
Resnick, Leo	*Milwaukee*
Reyer, Harold Benedict	*Colby*
Reynolds, Karl Storrs	*Sturgeon Bay*
Reynolds, Robert Leonard	*Milwaukee*
Richards, Glenn Ellsworth	*Madison*
Robison, Burke Hinsdale	*Indianapolis, Ind.*
Roesch, Florence Ursula	*Arcadia*
Rohde, Bruno John	*Milwaukee*
Rolck, Virgil Henry	*Baraboo*
Rossmeissl, Carl Albert	*Appleton*
Ruediger, George Paul	*Fountain City*
Russell, Carl Ross	*Superior*
Sanborn, Edwin Wilfred	*Waupun*
Sanders, Walter George	*Florence*
Schafer, Stanley N.	*Sheboygan*
Schenkenberg, Lester Forrest	*Milwaukee*
Scott, Norman Denton	*Sioux Falls, S. Dak.*
Sexton, Joseph Cantwell	*Madison*
Shefrin, John Monro	*Milwaukee*
Shaw, Gladys	*Union, Ill.*
Shellhammer, John W.	*Blackwell*
Siegman, Orra Leslie	*Whitewater*
Silverness, Joseph	*Mondovi*
Sliwinski, John Alvin	*Oconomowoc*
Smith, Harold Clinton	*Madison*
Smith, James William	*Madison*
Smith, Milo Ervin	*Huron, S. Dak.*
Sorensen, Alfred Christian	*Luck*
Stahlkopf, Elmer Carl	*Horicon*
Stanley, Frederick James	*Baraboo*
Stibbe, Austin Julius	*Peshtigo*
Stickle, Theodore Everette	*Cottage Grove*
Strand, Muriel Alice	*Duluth, Minn.*
Stroede, Harold Albert	*Wausau*
Swenholt, Caspar	*Madison*
Swift, John Dewey	*Darlington*
Symons, Robert Russell	*Dodgeville*
Tebell, Gustav Kenneth	*Aurora, Ill.*
Thiessenhusen, Raymond	*Milwaukee*
Thompson, Earl Joseph	*Cottage Grove*
Thompson Julius William	*Wabasha, Minn.*
Thompson, Truman se	*Taylor*
Thomson, Gordon Stuart	*Duluth, Minn.*
Torbet, James Allan	*Minneapolis, Minn.*
Trost, Arthur William George	*Milwaukee*
Trost, Wilma Marie	*Milwaukee*
Turner, Gilbert Charles	*Johnson Creek*
Umbreit, George Mackenzie	*Milwaukee*

Usher, William Robert	*Rhinelander*
Utgaard, Sigurd Byron	*Deer Park*
Van Meter, Dorothy Young	*New Richmond*
Vetter, Francis A.	*Fond du Lac*
Vlack, Albert Wattawa	*Madison*
Walker, Shores Adelbert	*Duluth, Minn.*
Walther, Herman Oscar	*Madison*
Warren, Charles Picken	*Ft. Collins, Colo.*
Webb, William James	*Shullsburg*
Weiler, Carroll	*Madison*
Wenzel, William Herman	*Marshfield*
White, Ben Cable	*La Crosse*
Wilkens, Alice Rasletter	*Fort Wayne, Ind.*
Williams, Kenneth Germain	*Fond du Lac*
Wolcott, Herbert LuVerne	*Chetek*
Yaudes, Lloyd John	*Peshtigo*
Zimmerer, John George	*Wausau*
Zimmerman, Arthur Antonius	*Wisconsin Rapids*
Zuehlke, Helen Rose	*Fort Atkinson* —248

Course for Normal School Graduates

Anderson, Eleanor Violet se	*Boise, Idaho*
Balliette, Ralph Ernest se	*Madison*
Berning, Dorris Margaret	*Reedsburg*
Bredlow, Lulu Elizabeth	*Marshfield*
Cavanagh, Jeannette se	*Washington, D. C.*
Chase, Mary Everett	*East Alstead, N. H.*
Desmond, John William	*Milwaukee*
Elsner, Albert August se	*Menomonie*
Ethier, Esther Frances	*Milwaukee*
Flynn, Eleanor Jeanne	*Madison*
Gannon, Ambrose Dominick	*Sedan, Minn*
Goldstein, Jeanette Mayer	*Chicago, Ill.*
Grede, Lucile Elizabeth	*Milwaukee*
Greenberg, Frederick	*Milwaukee*
Halsey, Stella Elizabeth	*Monroe, Mich.*
Hayden, Ruth Margaret	*Green Bay*
Huebner, Arthur Carl se	*Madison*
Jerving, William Edwin	*Sheboygan*
Jewett, Eugene Augustus se	*Poynette*
Jirgal, Mary Agnes	*Superior*
Johnson, Edith Mary	*Grand Rapids, Mich.*
Johnson, Loma Loraine	*Madison*
Johnson, Wilma se	*Argyle*
McDermott, Olive	*Darlington*
Mathews, Ethel Mary	*Colfax*
Miller, Ezra Albert	*Manitowoc*
Morrison, Helen Beulah se	*Bentley, Alberta, Canada*
Olson, Eva J.	*Blanchardville*
Peterson, Esther Jenny	*Marinette*
Riebe, Harvey August se	*Onalaska*
Robinson, Josephine Edith	*Milwaukee*
Roethe, Frances Emily se	*Milwaukee*

Swalls, Carrie A. se	*Roosevelt*	
Swinney, Zillah Hedger	*Madison*	
Thomas, Augusta Martha se	*River Falls*	
Van Tassel, Richard Julian	*Whitehall*	
Wasson, Helen Margaret	*River Falls*	
Wood, Iva Justine	*Boaz*	
Wood, Mabel Vivian	*St. Louis, Mo.*	—39

Course in Chemistry

Arvidson, Reuben Dewey	*Marinette*	
Bott, Phyllis Adele	*Shorewood*	
Carswell, Harry Eaton	*Richland Center*	
Chao, Henry Hsueh-Hai	*Wusih, China*	
Fitchett, Edmund MacDonald	*Janesville*	
Gimmler, Elsa Henriette	*Milwaukee*	
Harwood, Arthur Albert	*Cassville*	
Higley, Henry Parker	*Dubuque, Iowa*	
Hubbard, Bruce Watson	*Evansville*	
Krueger, Arthur Christian	*Milwaukee*	
Krueger, Herbert Ferdinand	*Stevens Point*	
Li, Yun Hua	*Kwangsi, China*	
Morsbach, Edward Augustus	*Madison*	
Rasmussen, Holger Wurtz	*Racine*	
Rowland, Kathrine Griffith	*Madison*	
Royce, Harvey Day	*Fort Atkinson*	
Shao, Chia Lin	*Shanghai, China*	
Sommers, Eva Margaret	*Madison*	
Spangenberg, George Robert	*Racine*	
Stiening, Jennie Ernestine J.	*Felton, Minn.*	
Tang, Tao Yuan	*Wusih, China*	
Thompson, Berthel Martin	*Superior*	
Tormey, Harold Joseph se	*Madison*	
Veit, Herman Fred	*Milwaukee*	
Ward, James Edward	*Elkhorn*	
Williams, Inez Margaret	*River Falls*	
Young, Ward Donovan	*Princeton, Minn.*	—27

Course in Journalism

Adelt, Gertrude Ellen	*Kenosha*	
Anderson, Nitanis Sherburne	*Madison*	
Anderson, Ruth Julia	*Chicago, Ill.*	
Babcock, Muriel	*Eau Claire*	
Banton, Oliver T.	*Mount Zion, Ill.*	
Bassman, Herbert John	*Milwaukee*	
Batten, Waldo William	*Janesville*	
Bolton, William Worden	*Oil City, Pa.*	
Borchers, Bartel Benjamin	*La Valle*	
Bowlby, Dorothy Katherine	*Waynesburg, Pa.*	
Bradford, Sara Florence	*Eveleth, Minn.*	
Brayton, Inez Almira	*Madison*	
Bredesen, Philip Gunerius	*Beloit*	
Brown, Rowena Ruth	*Madison*	
Bruns, Bernice Lillian l	*Plymouth*	

Busch, Mildred Helene	*Oshkosh*	
Childs, Marquis William	*Lyons, Iowa*	
Clare, Dorothy Grace	*Oak Park, Ill.*	
Crosse, Richard Hugh	*Genoa Junction*	
Culkin, Dorothea Ann	*St. Joseph, Mo.*	
Demerest, Charles Noyes	*Madison*	
Diehm, Harold Frederick	*Remus, Mich.*	
Foster, Helene Dorman	*New York City*	
Fox, Thelma Marcella	*Mt. Carroll, Ill.*	
French, Roy LaVerne	*Madison*	
Geiger, George Lowell	*Leavenworth, Kans.*	
Gibler, Ralph John	*Huntington, Ind.*	
Goodwin, Arthur Ernest	*Concordia, Kans.*	
Hagens, Pearl Lillian se	*Grand Rapids, Mich.*	
Harris, George Washburn	*Madison*	
Harris, Sumner Joseph	*Sturgeon Bay*	
Hoard, Halbert Wenham	*Fort Atkinson*	
Jaklon, Proehl Haller	*Louisville, Ky.*	
James, Mary Alice	*Richland Center*	
Knoedler, Alice Louise	*Argo, Ill.*	
Lewin, Charles Julius	*Berlin*	
Lugoff, Portia Barnet	*Duluth, Minn.*	
McClelland, Harold Edward	*Rice Lake*	
McClure, Leslie Willard	*Litchfield, Minn.*	
McDonough, Edward Jerome	*Edgerton*	
Perry, Kathryn Illeen	*Aurora, N. Y.*	
Petersen, Gladys Irene	*Hutchinson, Kans.*	
Pfister, Walter John	*Sheboygan*	
Pickard, David Corvus	*Green Bay*	
Powell, Harbeson Hickman	*Duluth, Minn.*	
Powell, Horace Breese	*Milwaukee*	
Ruff, Marjorie Anne	*Hammond, Ind.*	
Seaman, Cedric Edward	*Markesan*	
Shaw, Alice Merle	*Madison*	
Siebert, Frederick Seaton 1	*Mount Iron, Minn.*	
Sinaiko, Clara	*Madison*	
Smallshaw, Hellen Frances	*Coldwater, Mich.*	
Steenberg, David Knox	*Fond du Lac*	
Strong, Marian Caldwell	*Antigo*	
Teare, Ruth Blanche	*Stillwater, Minn.*	
Townsend, Hubert Force	*Hot Springs, Ark.*	
Trier, Clare Anne	*Hurley*	
Vermilion, Dane Eloise	*Centerville*	
Vincent, Elizabeth Hamilton	*Evanston, Ill.*	
Walters, Josephine	*Oak Park, Ill.*	
Wiesler, Dorothy Louise	*Milwaukee*	
Welloughby, Alfred	*Milwaukee*	
Zimmermann, Ethel Margaret	*Burlington*	—63

General Course

Albee, Ruth Emma se	*Waterford*
Boylon, Arthur Huntington	*Menomonie*
Calhoun, William Thomas se	*Spooner*

Cornell, William Augustus se	*Evansville*	
Dorward, William Gould	*Madison*	
Eulass, Margaret Anthony	*Chicago, Ill.*	
Gale, Julia Lorette	*Oak Park, Ill.*	
Gleason, Clyde Walter	*Portage*	
Gunderson, Lea	*Madison*	
Holman, Luther Leslie	*Madison*	
Jacobus, Delwin Charles	*Wauwatosa*	
Johnson, Silas Gaylord	*Madison*	
Lean, Olive C.	*Dousman*	
Manion, James Emmett	*Fond du Lac*	
Merrill, Harold William	*Arcadia, Ind.*	
Newton, George Storms	*Superior*	
Petersen, James Daniel	*La Crosse*	
Post, Clarence Arthur	*Milwaukee*	—18

Course in Humanities

Emmerling, Hans Frederick	*Milwaukee*	
Hirth, Helen	*Fond du Lac*	
Maier, Karl Adolph	*Milwaukee*	
Sullivan, Susie Mary	*Marshfield*	—4

Sophomores

Aase, Anna	*Mondovi*
Addenbrooke, Gwendolyn Marian	*Chicago, Ill.*
Addington, Lois	*Osage, Iowa*
Adolphson, Signe Josephin	*Edgerton*
Alberti, Catherine	*Madison*
Alshuler, Dorothy Adelaide se	*Milwaukee*
Altdoerffer, Mary Elizabeth se	*Poland, Ohio*
Alton, Everett Ernest se	*Sayner*
Ambrose, Lucia Pauline	*Nevada, Iowa*
Anderson, Ann Elizabeth	*Columbus*
Anderson, Elmer Clark	*Madison*
Anderson, James K.	*Madison*
Anderson, Lester Harry	*Princeton, Ill.*
Anderson, Lillian May	*Ossian, Iowa*
Anderson, William McKinnan	*Phillips*
Ardiel, Arthur Hamilton	*Grand Rapids, Mich.*
Aspinwall, Mary	*Fort Atkinson*
Atkinson, Ida Dorothea	*Eau Claire*
Bachuber, Hugo Charles	*Mayville*
Bacon, Hilary Edwin, Jr.	*Evansville, Ind.*
Bacon, Joy	*Evansville, Ind.*
Baines, Marguerite	*Janesville*
Baird, Mary Elizabeth se	*Madison*
Baker, Roger Denio	*Amherst, Mass.*
Baldwin, Doris Mae se	*Madison*
Baldwin, Raymond Matthew	*Beloit*
Barber, Alfred Russell	*West Bend*
Barton, Glen William	*Madison*
Barwig, Byron Ralph	*Mayville*

Baumann, Eugenie Adele	*Winona, Minn.*
Beanblossom, Ruth Ione	*Whiting, Iowa*
Beattie, Lois Beryl	*Washington, D. C.*
Bekins, Paul	*Omaha, Nebr.*
Bell, Morris Adam	*Oshkosh*
Bellack, Richard Franklin	*Columbus*
Bellows, Charles Fayette	*Maryville, Mo.*
Bemis, Josephine Doris	*Rice Lake*
Bennett, Johnson	*Chicago, Ill.*
Bennett, William Harold	*Ft. Atkinson*
Bensley, Vrginia	*Chicago, Ill.*
Bentley, Florence Elizabeth	*Madison*
Bevier, Helen Adine	*Logan, Mont.*
Bieberstein, Adolph Joseph	*Phillips*
Biglow, Elizabeth Agnes se	*Evansville*
Birnbaum, Frank Albert	*La Crosse*
Blahnik, Vance Lew	*Ashland*
Blake, Henry Warren	*Madison*
Blinks, William Nathaniel	*Kalamazoo, Mich.*
Blodau, Ottilia Caroline	*Madison*
Blossom, John Dickson	*Peoria, Ill.*
Boardman, Janice May se	*Marshalltown, Iowa*
Bock, Adolph Bismarck Carl	*Sheboygan*
Boerner, Edward Arthur	*Port Washington*
Boerner, Gladys Marie	*Milwaukee*
Bogue, Everett Alan	*Sioux Falls, S. Dak.*
Bollinger, Louise Virgila se	*Madison*
Bondurant, Dorothy Jeanne	*Des Moines, Iowa*
Bosshard, John Adolph	*Bangor*
Boswell, Eula Isabel	*Madison*
Botten, Isa Olvia	*Boscobel*
Bowker, Helen Boynton	*Morris, Ill.*
Bowman, Harold F.	*Sauk City*
Boyd, Catherine Hahn	*Sturgeon Bay*
Braasch, Theodor William	*Sheboygan*
Bradford, Dorothy	*Milwaukee*
Bradford, Helen Elizabeth	*Appleton*
Bradford, Josephine Mary	*Appleton*
Brainerd, Celia Margaret	*Adrian, Mich.*
Brandt, Harold Gaylord	*Van Wert, Ohio*
Brandt, Myrtle Henrietta	*Nekoosa*
Brennecke, Margaret se	*Chicago, Ill.*
Brindley, Emma Dowling	*Madison*
Bromley, Frances Lathram	*Birmingham, Mich.*
Brooks, Arbie LeRoy	*Madison*
Brooks, Mildred Adelaide	*Shawano*
Brown, Lillian Mary	*Neenah*
Brown, Margaret Louise	*Waupun*
Bryant, Mignon Sale	*Joliet, Ill.*
Bunde, Herbert Albert	*Wisconsin Rapids*
Burchard, Mary Janet	*Fort Atkinson*
Butler, Lucile Clark	*Reedsburg*
Butterfield, Howard Millard	*Amherst, Mass.*

Butts, Porter Freeman	*Springfield, Ill.*
Callahan, Julia Tormey	*Madison*
Callen, Carroll Francis	*Milwaukee*
Campbell, Frances Wadsworth	*Madison*
Callender, Winston	*Brookhaven, Miss.*
Campbell, Margaret Galley	*Chicago, Ill.*
Carpenter, Margaret Marie se	*Baraboo*
Cavanagh, Gladys Louise	*Madison*
Cavanaugh, Marion Ann	*Crystal Falls, Mich.*
Chang, Hwei Lan se	*Shanghai, China*
Chang Tseh	*Taigunfu, China*
Charmley, Beulah M.	*Madison*
Cherry, Jeannette	*Kenilworth, Ill.*
Chu, Chi Hwang se	*Shansi, China*
Churchill, Mildred se	*Fairbury, Ill.*
Clancy, Laura Louise	*Evanston, Ill.*
Clark, Elizabeth Adele	*Lead, S. Dak.*
Clark, Helen Harris	*Williston, Vt.*
Clark, Helen Hartnett	*Chicago, Ill.*
Clark, Norman Charles	*Milwaukee*
Clarke, Muriel Whitmore	*White Plains, N. Y.*
Coates, Haskell Eugene	*Madison*
Cohler, Milton J. se	*Chicago, Ill.*
Colvin, Margaret Pickels	*Mansfield, La.*
Conklin, Margaret Grinselle	*Madison*
Considine, Aileen Katherine	*Duluth, Minn.*
Cooper, George Olds	*Evanston, Ill.*
Corbett, Catharine Mary se	*Plymouth*
Costigan, Florence Anne se	*Madison*
Coutu, Walter Henri Joseph	*Delafield*
Crain, Dorothy se	*Madison*
Crandell, Luetta Bernice	*Oak Park, Ill.*
Crane, Frank Dougall	*Chicago, Ill.*
Crane, Frederica Wells	*Quincy, Ill.*
Cross, Dorothy Leona se	*Sycamore, Ohio*
Cumming, Janet Mary se	*Milwaukee*
Cummings, Charlotte Ropes se	*Marquette, Mich.*
Cunningham, Mary Augusta	*Platteville*
Curry, Charlotte Jane se	*Terre Haute, Ind.*
Cushman, Doris	*St. Paul, Minn.*
Dahlberg, Edith Julia	*Escanaba, Mich.*
Daley, Olive Signora se	*De Forest*
Daly, Beatrice Marjorie	*Beloit*
Damez, Marie Katherine se	*Manitowoc*
Darby, George Odell Switzer	*Brodhead*
Davidson, Emily Kathryn	*Hinsdale, Ill.*
Davis, Alice Ashford	*Madison*
Davis, Dixie	*Oak Park, Ill.*
Davis, George Keith	*Madison*
Davis, Shirley Ellen	*Milwaukee*
Davison, Edgar Charles	*Beaver Dam*
Dawson, Thelma	*Madison*
Day, Eleanor se	*Indianapolis, Ind.*

Dean, Dorothy Marion	*Glenwood City*
Dedrick, Calvert Lampert	*Madison*
Devine, Kathryn Jane	*Madison*
DeVinney, Sylvan Shetterly	*Madison*
Dickes, Edna Catherine se	*Greenville, Ohio*
Diefenderfer, Mary Nicholas	*Chicago, Ill.*
Diefenthaler, Marjorie Helen	*West Salem*
Dietrich, Carlisle	*Madison*
Diment, Alice Mary	*Mazomanie*
Dodd, John Morris	*Ashland*
Dodge, Dorothy Elmira se	*Newton, Iowa*
Dodge, Edward Sabin	*Lake Mills*
Dorau, Armen Carl	*Fond du Lac*
Douglas, James Kenneth	*Milwaukee*
Douglas, Rinette Elizabeth	*Milwaukee*
Drisko, Marian	*Aberdeen, S. Dak.*
Drought, Rose Alice	*Milwaukee*
DuBois, Durwood Carl	*Baraboo*
Eaton, Dorothy Louise	*Madison*
Eddy, Wilbur Joseph	*Canon City, Colo.*
Edwards, Muriel Montana	*Malta, Mont.*
Ehrlich, Kamma Evelyn	*Racine*
Eiseman, Cecil Lenore	*Chicago, Ill.*
Eken, Ruth Jeanette	*Madison*
Ekern, Lila May	*Madison*
Ellingson, Harvey Thomas	*Wautoma*
Ellingson, Waldo Olin	*Edgerton*
Elliott, Mary Helen	*Sioux Falls, S. Dak.*
Elliott, William	*Madison*
Ellsworth, Leona Faith se	*Amasa, Mich.*
Elsom, Elizabeth Reams se	*Madison*
Elsom, Kendall Adams	*Madison*
Emanuel, Alvin James	*Fall Creek*
Emmel, Florence	*Madison*
Engelmann, Victor Griel	*What Cheer, Iowa*
Englund, Evelyn	*Ashland*
Erickson, Milton Hyland	*Beaver Dam*
Esch, Anna Winifred	*La Crosse*
Eschweiler, Paul	*Madison*
Ewing, Andrew Goodyear	*New Haven, Conn.*
Fairbanks, Isabelle Adelaide	*Springfield, Ohio*
Farnsworth, Richard Wiggin	*Janesville*
Fathauer, Margaret Louise	*Chicago, Ill.*
Fehlhaber, Esther Marie	*Wausau*
Fehrman, Harold Albert	*New London*
Fenn, Camilla	*Prophetstown, Ill*
Ferebee, Dorothy June	*Richland Center*
Fess, Georgia Lauretta	*Madison*
Field, Ted Howard	*Rice Lake*
Finley, George William	*Fontana*
Fitzgerald, John Drake	*Milwaukee*
Flickinger, Frederick Rodgers	*Toledo, Ohio*
Flugstad, Wilson Dale	*Black River Falls*

Fox, Florence	*Glencoe, Ill.*
Frautschi, Walter Albert	*Madison*
Freeborn, Constance Margaret	*Fergus Falls, Minn.*
Fromm, Arno Henry	*Elkhart Lake*
Frye, Mildred Sarah	*Sparta*
Fuller, Blanche Helen	*Madison*
Fuller, Katharine	*Madison*
Funk, Howard Vern se	*Shullsburg*
Gaffney, Margaret Mary	*Madison*
Gannon, Elsie Katherine	*Mukwonago*
Gannon, Gladys Marie	*Madison*
Gardner, Kenneth Stuart, Jr.	*Kansas City, Mo.*
Gebhardt, Anna Louise	*Juneau*
Gehrke, Harry Helmut	*Manawa*
Gesme, Isaac James	*Mount Horeb*
Gibson, Douglas Nelson	*Cumberland*
Giles, George Cranston	*La Grange, Ill.*
Gilkison, Helen Mae	*Pierre, S. Dak.*
Gill, Ralph Gregory	*Madison*
Gissal, Elizabeth Emma Ann	*Alton, Ill.*
Godfrey, Theodore Bruse	*Aurora, Ill.*
Godshall, Edna Bailey	*Madison*
Goeldner, Mabel Isabelle	*Watertown*
Goelzer, Esther Emma	*Milwaukee*
Goetz, Loraine Ernestine	*Milwaukee*
Goldberg, Yvette Zara se	*Kenosha*
Golden, Harry Mitchell	*Milwaukee*
Goldsmith, Walter Joel	*Milwaukee*
Goldthwaite, Mary Thayer	*Boone, Iowa*
Goodyear, Charles Stewart	*Madison*
Gordon, Helene Phebe	*Battle Creek, Mich.*
Gormley, Doris	*Spokane, Wash.*
Gould, Leo Adolph	*Coloma*
Grabin, Nathan	*Milwaukee*
Grady, Lorna Voigt	*Watertown*
Graper, Laura Mabel	*Fort Atkinson*
Gray, Rodney Jones	*De Forest*
Greene, Harriette Louise	*Evansville*
Greenwood, Grace Eolah	*Lake Mills*
Gregory, Emery Gerald	*Reedsburg*
Gregory, Stanley Martin	*Corrier, Okla.*
Grier, Lonnie Leander	*Lake Geneva*
Griffin, Lauretta Irene	*Green Bay*
Griffith, Margaret Gwethalyn	*Lake Forest, Ill.*
Grimm, Alfred Frederick	*Madison*
Groth, Irene Marie	*Jackson*
Grunstad, Pearl Elizabeth se	*Worthington, Minn.*
Gunell, Esther	*Merrill*
Guthrie, William Mackey	*Indiana, Pa.*
Guy, Emmett Frank	*Milwaukee*
Haase, Gertrude Marie	*Milwaukee*
Hadley, Susan Emma	*Janesville*
Hale, Elizabeth Louise	*Chicago, Ill.*

Haley, Mary Louise	*Tulsa, Okla.*
Hall, Maurine se	*Normal, Ill.*
Hallet, Eileen Gertrude	*Minneapolis, Minn.*
Hambley, Mary	*Hurley*
Hamilton, Doris Lorraine	*Vermont, Ill.*
Hanson, Lee Delbert	*Delavan*
Hanson, Lucille Geraldine	*Eau Claire*
Hanson, Mildred Alva Theresa	*Rio*
Harmison, H. Ruth	*Madison*
Harrington, Delos James	*Elkhorn*
Harris, Dora se	*Cleveland, Ohio*
Harris, Ellen Wilson	*Athens, Pa.*
Harrison, Lilian Mauro	*Keith Inch, Mo.*
Hastings, Laurens Grose	*Bronxville, N. Y.*
Haswell, Helen Alvira	*Madison*
Haswell, Rachel Loomis	*Madison*
Hatfield, Margaret Ellen	*Madison*
Hausmann, Carl Genal	*Madison*
Haven, Anita Katherine	*Hudson*
Hawn, Clarence L.	*Coleraine, Minn.*
Hayden, Charles Leslie	*Milwaukee*
Hayes, Margaret Ramona	*Madison*
Hazelwood, Clark John	*Madison*
Head, Donald Seaver	*Madison*
Heck, Helen Margaret	*Salem, Ohio*
Heim, Frances Teresa	*Madison*
Heise, Cornelia Dorothea	*Green Bay*
Held, Henry Jacob	*Milwaukee*
Hellebrandt, Frances Anna se	*Oak Park, Ill.*
Hendra, Elmore Hutchison	*Madison*
Hendrickson, Helen Marie	*Dodgeville*
Hendry, Allan Penfield	*Madison*
Henika, Evangeline Cecelia	*Madison*
Henrickson, Hilding Frederich	*Rockford, Ill.*
Hermsmeier, Eleanora Mathilda	*Madison*
Herrman, Roy Frederick	*Sparta*
Herzberg, Willis Sidney	*Milwaukee*
Hiatt, Alfred Hoffman	*Peoria, Ill.*
Hicks, Gladys Ellen	*Madison*
Higley, Ruth Isabelle	*Youngstown, Ohio*
Hilbert, Philip Fot	*Milwaukee*
Hilles, Marian Ruth	*Bourbon, Ind.*
Hindes, Hubert Jack	*Ableman*
Hines, Clara Aurelia	*Cumberland*
Hipple, Frances Wardlow	*Madison*
Hirsh, Herbert William	*Milwaukee*
Hirsig, Josephine Marie	*Madison*
Hitz, Vajen Eileen	*Indianapolis, Ind.*
Hocking, George Drew	*Waupaca*
Hoffman, Melvin Morris	*Chicago, Ill.*
Hollister, Donald Edgar	*Milwaukee*
Hopkins, Mary Louise	*Morrisonville*
Horstmeier, Paul Henry	*Madison*

Horten, Stephen Van Dyke	*Oak Park, Ill.*
Horton, Kathryn	*Escanaba, Mich.*
Hosack, Marion Elizabeth	*Fredericktown, Ohio*
Hosoya, Toshi	*Tokio, Japan*
Huckle, Esther Gwendolyn	*Lapeer, Mich.*
Hughes, Frances Willard	*Janesville*
Hume, Loren Alexander	*Green Bay*
Humphrey, Valentine Eugenia	*Patch Grove*
Hunsaker, Francis Jay	*Lancaster*
Hunt, Lawrence Edward se	*Sulphur Springs, Ind.*
Hurley, John Joseph	*Milwaukee*
Hutchens, Helena Fuller	*Missoula, Mont.*
Hutchinson, Alfred Baldwin	*Weyauwega*
Hutton, Helen	*Denver, Colo.*
Ilett, Phyllis	*Chicago, Ill.*
Illenden, Mary Ruton se	*Adrian, Mich.*
Immel, Leone Charlotte	*Fond du Lac*
Ingebritsen, Gladys Anna	*Madison*
Ingebritsen, Henry Percival	*Madison*
Irwin, Galen Seton se	*Roachdale, Ind.*
Iverson, Anna Mae	*Tomahawk*
Jackson, Alice Edith se	*River Forest, Ill.*
Jacobs, Edith Marian	*Oklahoma City, Okla.*
Jacobs, Helen Ruth	*Oklahoma City, Okla.*
Jacobs, Lois Eleanor	*Milwaukee*
Jacobsen, Clara Lenore se	*Madison*
James, Adelene W.	*Richland Center*
Jax, Clarence Gerald	*Johnson Creek*
Jenkinson, David Lester	*Minocqua*
Jennings, Lillian Bruce	*Cleveland, N. Dak.*
Jobse, Mabel Ruth	*Milwaukee*
Johnson, Alice Carolyn	*Waupaca*
Johnson, Dorothy Trathine	*Omaha, Nebr.*
Johnson, Helen Louise	*New Ulm, Minn.*
Johnson, Madeline Lela	*Madison*
Johnson, Vincent Clifton	*Madison*
Jones, Arletta Labon	*Black River Falls*
Jones, Anita Margaret	*Spring Green*
Jones, Dorothy	*Madison*
Jones, Ethel Loretta	*Waupun*
Jones, Marjorie Malinda se	*Pittsburgh, Pa.*
Jones, Orville Leslie	*Wallace, Idaho*
Jones, Rowland Grahame	*Gettysburg, S. Dak.*
Jones, Sarah Bertha	*Birchwood*
Jorns, Byron Carl se	*Portage*
Juneau, Marion Mabel	*Milwaukee*
Jung, Josephine	*Milwaukee*
Kaemmer, Edith Louise	*Almena*
Kahle, Irma Violet	*Milwaukee*
Kapp, Edgar Benjamin	*Milwaukee*
Kasdin, Gertrude	*Madison*
Kasiska, Raymond John	*Baraboo*
Kauffman, Chloe Helen	*Princeton, Mo.*

Kavana, Eliza	*La Grange, Ill.*
Kay, David Theodore	*Chicago, Ill.*
Keck, Everett Blaine	*Madison*
Keech, Josephine Sara	*Racine*
Keeney, Helen Lorraine	*Milwaukee*
Kellogg, Florence Agnes	*Edgerton*
Kellogg, Grace Hopkins	*Milwaukee*
Kelly, Eugene David	*Leavenworth, Kans.*
Kempton, Elizabeth	*Madison*
Kennan, Jeanette Sinclair	*Milwaukee*
Kennard, Elmer	*Norfolk, Neb.*
Kennedy, Sarah Katherine se	*Youngstown, Ohio*
Kenney, Catherine Eileen	*Madison*
Kepple, Joseph Francis	*Cadott*
Kerr, Georgianna Mildred	*Green Bay*
Kerr, Margaret Elizabeth	*Detroit, Mich.*
Kimberly, Georgi Ana	*Chicago, Ill.*
Kimmell, Elsie Mae	*Kewanee, Ill.*
Kingsford, Helen Stewart	*Baraboo*
Kirchner, Willard Florin	*Fountain City*
Kissell, Milton John	*Hartford*
Klaesson, Kathryn Bertram	*Stoughton*
Klass, William Henrich	*Oconto*
Klein, Margaret Viola	*Fort Atkinson*
Klos, Henry William	*Madison*
Klosterman, Clara Flora	*Shawano*
Klueter, Emily Mary	*Madison*
Klueter, Katherine Dorothy	*Madison*
Klug, Arleen Druse	*Milwaukee*
Knight, Ellen Charlotte	*Evanston, Ill.*
Knights, Belle Ida	*East Aurora, N. Y.*
Knox, Margaret Elizabeth	*Chicago, Ill.*
Koepcke, Gerald Meinhardt	*Madison*
Kohl, Martha	*Marshfield*
Koons, Frank Myron se	*Baraboo*
Korthals, Albert William	*Sheboygan*
Koschin, Eleanore Alice	*Racine*
Kowalke, Marie Henrietta	*Sheboygan*
Kranert, Isabelle Margaret	*McGregor, Iowa*
Krembs, Helen Margaret se	*Fond du Lac*
Kremers, Carl Gerhard	*Madison*
Krohn, Robert	*Black River Falls*
Kroncke, Gretchen se	*Madison*
Krammen, Olga Marie	*Decorah, Iowa*
Lambeau, Oren Anthony se	*Marinette*
Landa, Julio Felix	*Lima, Peru, S. A.*
Lane, Gladys Amy	*Phillips*
Lang, Francis Clark	*Mason City, Iowa*
Lange, George Frederick	*Columbus*
Larson, Arvid Oliver	*Ironwood, Mich.*
Larson, Lucile	*Madison*
Laun, Donald D.	*Milwaukee*
Lawrence, Hans Will	*New London*

Lawrence, Vernon	*Sparta*
Leitzell, Muriel Jane	*Benton*
Lenher, George	*Madison*
Lenher, Sam	*Madison*
Lenz, Arnold Arthur	*Tomah*
Levitt, George	*Phillips*
Lewis, Harriet Sybil	*Chisholm, Minn.*
Lewis, Helmar Ariel	*Macfarland*
Libbey, Eleanor Ruth	*Oshkosh*
Libby, Catherine Hildebrandt	*Indianapolis, Ind.*
Liebermann, Albert Bellack	*Watertown*
Lind, Marjorie Ruth se	*Hillsboro*
Lingenfelder, Doris Amy	*Beemer, Nebr.*
Link, Walter Karl	*La Porte, Ind.*
Lins, Beatrice Martha	*Spring Green*
Littel, Edward George	*Madison*
Lloyd, Mazie Georgiana	*Ashland*
Lockhart, Margaret Janet	*Milbank, S. Dak.*
Loonan, Maurine	*Sioux Falls, S. Dak.*
Lorentz, Nancy Ragnhild	*Chicago, Ill.*
Louden, Roberta Biddle	*Fairfield, Iowa*
Lowe, Edna Mae	*Algonquin, Ill.*
Ludden, Raymond Horace	*Bloomington*
Luedke, Hildegarde Angelia	*Milwaukee*
Lycan, Mary Louise	*Paris, Ill.*
Lynch, Marion Lavon	*Delavan*
McCaffery, Agatha Grace	*Madison*
McClintock, Marian Adaline	*Galoa, Ill.*
McClymont, Jessie Clay	*Milwaukee*
McCollum, Bernice Claire	*Stillwater, Minn.*
McComb, Donald Walter	*Lima Center*
McConkey, Fay Bernice	*Madison*
McCoy, Elizabeth Rose	*Springfield, Ill.*
McCoy, Stuart Bowker	*Sparta*
McDonald, John Edwin	*Pardeeville*
McFarlane, Gertrude Helen	*Delavan*
McFarlane, Joan	*Delavan*
McGarty, Patricia Helen	*Mauston*
MacGregor, Donald Alexander	*Westfield*
MacGregor, James Gordon	*Fargo, N. Dak.*
McHugh, Clifford Joseph	*Chilton*
McKay, Katherine	*Decorah, Iowa*
McKeegan, Ethel Harriet	*Rock Valley, Iowa*
McKenna, Mary Elizabeth se	*Antigo*
McKittrick, Seth Redford	*Madison*
McLeod, Eva S.	*Madison*
MacRavey, Frank William, Jr.	*Madison*
Ma, Yueah	*Tientsin, China*
Mabley, Elaine Elizabeth	*St. Louis, Mo.*
Mackin, Helen Bernardine	*Mount Pleasant, Iowa*
Macmillan, George	*Arlington*
Magaurn, Florence Louise	*Green Bay*
Mann, Della Garrett	*Chicago, Ill.*

Mapes, La Mona Bernard	*Omaha, Nebr.*
Marcks, Elgie Chester se	*Black Creek*
Marks, Joseph Henry	*Madison*
Marquis, Jean se	*Berwyn, Ill.*
Marsh, Helen Louis se	*Elroy*
Marshall, Janet Kathryn se	*Milwaukee*
Martens, Alice Lilian	*Kaukauna*
Martin, Albert Franklyn	*Chicago, Ill.*
Mavor, Mary Jean	*La Grange, Ill.*
Mayer, Virginia Iris	*Chicago, Ill.*
Merriam, Allison William	*Madison*
Merritt, Frances Hayward se	*Lockport, N. Y.*
Merry, Harold Monroe	*Madison*
Metcalf, Marian Jessie se	*Merrill*
Metcalf, Ralph	*Spring Green*
Meyer, Carleton Wiepking	*Washington, D. C.*
Millar, Janet Lockhart	*Madison*
Miller, Vanson Venorian, Jr.	*Ladysmith*
Mitchell, Harold Edgar	*Appleton*
Mjelde, Bjarne A.	*Stoughton*
Moebs, Helen Elizabeth	*Detroit, Mich.*
Moehlman, Freda Ann	*Madison*
Mohr, Cheryl Isabella	*Chicago, Ill.*
Molleries, Dorothy Elizabeth	*Milwaukee*
Mooradian, Margaret Atta	*Madison*
Moore, Edwin Eldred	*Joliet, Ill.*
Moore, Margaret	*Thorntown, Ind.*
Morgan, Eleanor Louise se	*Madison*
Morgan, Mildred	*Madison*
Morse, Anne Irene	*Appleton*
Morse, Herbert	*Milwaukee*
Morstad, Alexander Erik	*Laona*
Moses, Margaret Elizabeth	*Eau Claire*
Moulding, Arthur Tilt	*Chicago, Ill.*
Moulding, Joseph Watkins	*Delavan*
Mueller, Rosella Elizabeth	*Madison*
Murphy, Edwin Brookfield	*Sterling, Ill.*
Murphy, John Falk	*Madison*
Murray, Margaret se	*River Forest, Ill.*
Murwin, Chester W. se	*Edgerton*
Nammacher, Traugott Herman	*Oconomowoc*
Nashold, Marian Lucile	*Madison*
Neidig, Hope Vera	*Plankinton, S. Dak.*
Nelson, Gladys Lee Ellen	*Madison*
Nelson, Myrtle Violet se	*Kilbourn*
Nelson, Ruth Eleanor	*Chicago, Ill.*
Nelson, Tyra Henrietta	*Superior*
Nelzow, Lillian Cecille	*Milwaukee*
Neuling, Wilma Elizabeth	*Wausau*
Newell, Pauline La Tourette	*Evanston, Ill.*
Nichols, Grace Laura	*Madison*
Nimmow, Thekla Mathilda	*Ableman*
Noer, Rudolf June	*Wabeno*

Nolte, Ruth Rosamond	*Wauwatosa*
Norris, Clarkson	*La Moille, Ill.*
Norton, Marion Elizabeth	*Escanaba, Mich.*
Nye, Charlotte Elizabeth	*Madison*
Odell, Athol Francis	*Quincy, Ill.*
Ogden, William Butler	*Edgerton*
Oldenburg, Edith Marie	*Madison*
Olson, Hartman Eugene	*McFarland*
O'Malley, Letitia Magdalen	*Madison*
O'Neil, Elizabeth Agnes	*Chippewa Falls*
Orth, Olivia Tecla	*Milwaukee*
Oscar, Helen Grace	*Madison*
O'Shea, Katharine Gaylord	*Madison*
Osius, Elizabeth Gertrude	*Detroit, Mich.*
Osmundsen, Orville Alexander	*Madison*
Paciotti, Roland Arthur	*Eveleth, Minn.*
Packard, John Sanderson	*Rhinelander*
Paris, Grace Ward	*Prairie du Chien*
Parker, Helen se	*Madison*
Parkhill, Edith Muriel	*Rochester, Minn.*
Parr, Dola Evangeline	*Eau Claire*
Pasley, Joyce Ruth	*Madison*
Patterson, Roland Snell	*Mankato, Minn.*
Paull, Dorothy Eunice	*Wauwatosa*
Paull, Roscoe Alvin	*Ridgeway*
Pearse, Benjamin Hughes	*Milwaukee*
Pedersmoen, Helene Katherine	*Madison*
Pergande, Margaret Theresa	*Milwaukee*
Perkins, Doris Elberta	*Lebanon, Ind.*
Perry, Edward Benjamin	*Amery*
Petersen, Mary Louis	*Clinton, Iowa*
Peterson, Frederick Russell	*Florence*
Pettijohn, Aletha H.	*Indianapolis, Ind.*
Pettit, Donald Dalton	*North Fond du Lac*
Pfeifer, Robert Fulton	*Sheboygan Falls*
Philipson, Sara Carson	*Chicago, Ill.*
Pinkerton, Lyall John	*Neenah*
Platten, Arthur John	*Green Bay*
Plattenburg, Virginia	*Canton, Ill.*
Porter, Catharine Harriett	*Oak Park, Ill.*
Poser, Edward Falk	*Columbus*
Potratz, Beatrice Louise	*Prairie du Chien*
Powell, Helen Elizabeth	*Milwaukee*
Powers, Joseph Martin	*Fargo, N. Dak.*
Pratt, Helen Emily	*Cleveland, Ohio*
Prehn, Douglas Theodore	*Wausau*
Prescott, Dorothy Isabel	*Madison*
Pritzlaff, Richard George	*Milwaukee*
Puehler, Mary Ursula	*Madison*
Purcell, Thomas Mark	*Madison*
Rakosi, Carl Schiller	*Kenosha*
Randall, Christian John	*Woodville*
Randolph, Mary Elizabeth	*Lafayette, Ind.*

Rasmussen, Florence Viola	*Madison*
Rath, Ethel Harrison	*Madison*
Rathert, Burton Stewart	*Chilton*
Raymond, Jessie Lauretta	*Madison*
Redeker, Dorothy Jane	*Elgin, Ill.*
Redeman, Mildred Ida	*Kiel*
Reed, Guerdon Albert se	*Madison*
Regula, Catherine Anne	*Madison*
Reichert, Margaret Mary Ellen	*West Bend*
Reitan, Thora Mathilda	*Bonduel*
Renner, Frank Joseph se	*Danville, Iowa*
Rice, Elizabeth Bernadine	*Escanaba, Mich.*
Richardson, Adelaide Elizabeth	*Quincy, Ill.*
Riddell, Elizabeth Frances	*Oak Park, Ill.*
Riesterer, Mildred Leonora	*Wheaton, Ill.*
Riley, Elizabeth Tyner	*Madison*
Rippe, Oscar Hjalmar se	*La Crosse*
Ritter, Vesta Viola	*St. Joseph, Mo.*
Roach, Carroll Ewart	*Waterloo*
Roach, Thelma Isabel	*Chicago, Ill.*
Robb, Florence Jeanne	*Eveleth, Minn.*
Robbins, Holden John	*Madison*
Roberts, John Colin	*West Bend*
Robertson, LeRoy Link	*St. Louis, Mo.*
Roe, Winifred Mae	*Dixon, Ill.*
Rogers, Carl Ransom	*Lisle, Ill.*
Rosenbaum, Ralph Kahn	*Milwaukee*
Rosenberg, Sylvia	*Milwaukee*
Ross, Helen Virginia	*Mineral Point*
Roth, Eleanor Anna	*St. Louis, Mo.*
Rowley, James Arthur	*Wausau*
Royce, Frances Lavina	*Madison*
Russell, Hugh Mariner	*Fredonia, Kans.*
Russell, Kathryn Angeline se	*Flandreau, S. Dak.*
Rutte, Louis Bernard	*Leopolis*
Rydell, Otto Ellwood	*Superior*
Salb, Irene	*Berwyn, Ill.*
Sander, Oscar A.	*Madison*
Sargent, Esther Belle	*Grand Rapids, Mich.*
Schaefer, Arthur Albert	*Milwaukee*
Scheibel, Dorothy Fay	*Madison*
Scheier, Joseph Baron	*Milwaukee*
Scheuer, Lucille Anna	*Mishicott*
Schindler, John Albert	*New Glarus*
Schlicher, Hildegarde	*Madison*
Schlossman, Pauline Julia	*Muskegon, Mich.*
Schmidt, Victor O.	*Plymouth*
Schoen, Norma Esther	*Milwaukee*
Schoenberg, Edith Hulda se	*Muskegon, Mich.*
Schoenlaub, Mildred Flag Caroline	*Madison*
Schulke, Walter Edward	*New Ulm, Minn.*
Schulz, Hilda Marion	*Milwaukee*
Schumacher, David Emil	*Milwaukee*

Schurman, Phyllis	*Fremont, Nebr.*
Scott, Bernice Marjorie	*Cambridge*
Seaman, Frances	*Milwaukee*
Seering, Harold Albert	*Shawano*
Sell, Ethelyn Beatrice	*Reeseville*
Sellery, George Bappy	*Madison*
Senneff, John Albert, Jr.	*Mason City, Iowa*
Shanks, Mertis Isabel	*Merrimac*
Shao, Yuan Chong	*Shanghai, China*
Shapiro, Herman Harvey	*Madison*
Shapiro, Lazare Melvin	*Madison*
Shapiro, Leo Sidney	*Madison*
Shaw, Gerald William	*Waunakee*
Sheltman, Emmey-Lou	*Louisville, Ky.*
Sherr, August John	*Milwaukee*
Sherry, Ruben Henry	*Viroqua*
Shufelt, Harlan Jeremiah se	*Madison*
Sichler, Margaret Xentha	*Madison*
Siegel, Nathan Seldon	*Superior*
Siggelkow, Rodney Owen	*McFarland*
Sikes, Eleanor Shepard se	*Chicago, Ill.*
Siljan, Harold Godfrey	*Madison*
Simon, Harry	*New York, N. Y.*
Simpson, Dorothy se	*Fort Wayne, Ind.*
Singleton, Elizabeth Ann	*Wilmette, Ill.*
Sires, Claire Mildred	*Superior*
Skolas, Marcus	*Madison*
Slagg, Rodney Arthur se	*Fort Atkinson*
Slaughter, Blanchard King	*El Monte, Calif.*
Slocum, Gertrude Elizabeth	*Chicago, Ill.*
Smart, Annie	*Dallas, Texas*
Smith, Alethea Elizabeth	*Madison*
Smith, Ann Avery se	*Detroit, Mich.*
Smith, Beatrice Elizabeth	*Weyauwega*
Smith, Bentley	*Chicago, Ill.*
Smith, Doris Martha	*Lockport, N. Y.*
Smith, Dorothy	*White Plains, N. Y.*
Smith, Ethel May se	*Carbondale, Kans.*
Smith, Eulalia Margaret	*Madison*
Smith, Helen Burden	*Joliet, Ill.*
Smith, Marjorie June	*Beaver Dam*
Smith, Phoebe Louise	*Seattle, Wash.*
Snir, Hazel Rose	*Pittsburgh, Pa.*
Snoddy, William Owsley	*Glasgow, Ky.*
Snow, Josephine Ferris	*Ottawa, Ill.*
Snydacker, James Underhill	*Kenilworth, Ill.*
Snyder, Grace Opal	*Rockford, Ill.*
Soderberg, Edna Madeline	*Barron*
Sommer, Arno William	*Sheboygan*
Soucie, Ethel Mary	*Lynxville*
Sovereign, William Waterman	*Willow Spring, Ill.*
Spittler, August Wesley	*Fountain City*
Sprague, Alice Helen	*Syracuse, Ind.*

Staab, Elma May	*Wall Lake, Iowa*
Staab, Lula Dorothea	*Wall Lake, Iowa*
Stafford, Harold Daniel	*Waupaca*
Stamats, Gretchen	*Perrysburg, Ohio*
Stamats, Mary A.	*Cedar Rapids, Iowa*
Stanchfield, Georgia Ophelia se	*Fond du Lac*
Staudenmeyer, Ruth Cecily	*Portage*
Stauffer, Rose	*Monticello*
Stedman, Helen	*Chattanooga, Tenn.*
Steele, Leah Emma se	*Sparta*
Stehr, Raymond Albert	*Madison*
Steiger, Sophie Orth	*Milwaukee*
Stewart, Frances Helen	*St. Louis, Mo.*
Stitzer, Kenneth	*Boscobel*
Stock, Donald August	*Eau Claire*
Strachan, Clyde Graham	*Tomah*
Strele, Vaclav	*Madison*
Stuart, James Reeve	*Milwaukee*
Summers, Myrl Aurelia	*Huntington, Ind.*
Sutor, Dorothy Eileen se	*Burlington, Iowa*
Swensen, Dorothy Katherine	*Madison*
Swift, George	*Chicago, Ill.*
Sygman, Abraham	*Two Rivers*
Taft, Merrill Edward	*Whitewater*
Taggart, Horace Rollins	*Madison*
Tashof, Sophia Poppers	*Washington, D. C.*
Taylor, Elizabeth se	*Greenville, Miss.*
Taylor, Elizabeth Ann	*Omaha, Nebr.*
Taylor, Herbert Halliday	*La Grange, Ill.*
Taylor, Janet Ida	*Chicago, Ill.*
Taylor, Susan Lois se	*Madison*
Tegtmeyer, Gamber Fred	*Milwaukee*
Tegtmeyer, Henrietta Dorothy	*Chicago, Ill.*
Teller, Julian Simeon	*Milwaukee*
Tesar, Ina Margaret	*Prairie du Chien*
Thauer, Marion Henrietta	*Watertown*
Thoeny, Oscar Walter	*Fountain City*
Thomas, Mildred Louise	*Pierre, S. Dak.*
Thompson, Albert Wheeler	*Madison*
Thompson, Eldon La Verne	*McPherson, Kans.*
Thompson, Robert Clendenning	*St. Croix Falls*
Thompson, Robert Reese	*Oshkosh*
Thompson, Samuel Dean	*Waukesha*
Tobey, Edith Louise	*Wausau*
Tomlinson, George Herman	*Eau Claire*
Torrison, Norman Richard	*Manitowoc*
Trainor, Stella Elizabeth	*Madison*
Traut, William Raymond	*Fond du Lac*
Trautman, Milton	*S. Milwaukee*
Trayser, Donald Grant	*New London*
Trolander, E. Evangeline	*Alborn, Minn.*
Trulson, Borghilde Dazma	*Stoughton*
Tuft, Warren Raiborn	*Milwaukee*

Tufts, Kathrine Marie	*Eau Claire*
Tunstall, Kathryn Gabrielle	*Madison*
Turner, Harriette Anne	*Madison*
Turner, Mary Sonlard	*St. Louis, Mo.*
Tyler, Miss Jimmie Elmer	*Madison*
Tyrrell, Ethel Louise	*San Antonio, Texas*
Tyrrell, Helen Edith	*Lake Geneva*
Updyke, Elizabeth Sanders	*Princeton, N. J.*
Urban, Faith Leola	*Wauwatosa*
Vance, George Sheldon	*Chicago, Ill.*
Vander Horst, Christel Louise	*Kalamazoo, Mich.*
Van Ells, Myron Edwin se	*Milwaukee*
Verbrick, Willard C.	*Menasha*
Wagner, Gladys Irene	*Madison*
Wald, Arthur	*Republic, Mich.*
Wall, Thomas Robert	*Oshkosh*
Wallace, Gertrude Morgan	*Mount Carmel, Ill.*
Wallace, Sherman LeRoy	*Madison*
Walter, Allan Wylie	*Mendota, Ill.*
Ward, Mary Josephine	*Fairmont, Minn.*
Watson, James Torrence	*Madison*
Wean, Charlotte Elizabeth	*Toledo, Ohio*
Wechselberg, Edith Ruth	*Milwaukee*
Wegner, Lydia	*Two Rivers*
Weinbaum, Stanley Grauman	*Milwaukee*
Weller, Horace Look	*Fond du Lac*
Wells, Marian Elinore	*Portage*
Wendnagel, Mary Elizabeth	*Chicago, Ill.*
Wengler, Lilian Mary	*Madison*
Westerfield, Florence May	*Madison*
Wheeler, Helen Anna	*Columbus*
Wheeler, Jefferson Gregg	*Wauwatosa*
Whipple, Dorothy Virmilya	*New York, N. Y.*
White, Carmen Adell se	*Madison*
Whitehead, Francis Crosby	*La Grange, Ill.*
Whitman, Marcus	*Baraboo*
Wiedenbeck, Frances Theodora	*Madison*
Wilber, Martha Lee	*St. Louis, Mo.*
Wilcox, Ruth Lillian	*Chicago, Ill.*
Wild, Sarah Pauline se	*Sycamore, Ill.*
Wildeman, William Jackson	*Madison*
Wilken, Rodney Frederick	*Whitehall*
Willard, Henry Matthew se	*Stoughton*
Williams, Bertha Helen	*Madison*
Williams, Dorothy Elizabeth	*Milwaukee*
Willson, Gordon Lee	*Leal, N. Dak.*
Wilson, E. Jeanette	*Burlington*
Winslow, Solveig Elizabeth	*Piedmont, Calif.*
Winston, Thomas Mumford	*Highland Park, Ill.*
Winter, Kathryn Elizabeth	*Madison*
Winterbotham, Isabelle	*Madison*
Wishart, Marie Ellen se	*Grand Rapids, Mich.*
Wittenberg, Wilber William	*Milwaukee*

Wood, Maurice Warren	*Grand Rapids, Mich.*
Wood, Thomas Stakely	*Duluth, Minn.*
Wood, Willis	*Clintonville*
Wright, Frances Adaline	*Sparta*
Wright, Helen Lucile	*Madison*
Wyckoff, Helen Mead	*Alton, Ill.*
Zarne, Alfred Weiss	*Milwaukee*
Zielsdorf, Helen	*Milwaukee*

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Course in Commerce

Albrecht, Clarence William	*Madison*
Allard, Douglas Washington	*River Falls*
Anundsen, B. B.	*Decorah, Iowa*
Ashton, Harry Webster	*Rhinelander*
Baker, Maurice Jacobs	*Lansing, Mich.*
Ball, Mary Manning	*Brooklyn, N. Y.*
Banner, Edward Anthony	*Chicago, Ill.*
Barnes, Elizabeth Kathryn	*Aberdeen, S. Dak*
Beach, George Harrison	*Whitehall*
Beeken, Fred Rudolph	*Madison*
Beggs, Stanley Robert	*Hudson*
Benbow, Robert Leslie	*Aberdeen, S. Dak.*
Benson, Irving Milton	*Iola*
Berkley, Bessie Ruth	*Baraboo*
Billings, Burton Gideon	*Madison*
Blix, Laura Margaret	*Turtle Lake*
Boeckh, Julius Wilkins	*Lansing, Iowa*
Boese, William Frederick	*Ripon*
Bond, Clayton M.	*Muscatine, Iowa*
Bongey, Alfred Rudolph	*Madison*
Bowen, Harold Williams	*Milwaukee*
Brigham, Marguerite Irene	*Madison*
Brown, Winsor Philip	*Prophetstown, Ill.*
Buckley, William Edward	*Portage*
Buddig, Gertrude Helen	*Chicago, Ill.*
Bunker, Addie Laurie	*Turtle Lake*
Burns, Harry Burnett, Jr.	*Pittsburgh, Pa.*
Burns, Judd Arno	*Stanley*
Cannon, Earl Nelson	*Delavan*
Cardiff, Joseph Burton	*Oshkosh*
Carey, Leon A.	*Marion*
Christena, Francis Wesley	*Indianapolis, Ind.*
Clark, Philip Edmund	*Milwaukee*
Clough, Merwin Spencer	*Oshkosh*
Corl, Alice Elizabeth	*Grand Rapids, Mich.*
Cornwell, Earl Roosevelt	*Capron, Ill.*
Crowley, Florence Homer	*Oak Park, Ill.*
Crummey, Mabel Lucille	*Madison*
Curren, Ralph Benjamin	*Eau Claire*
Dahl, Lawrence Gustave	*Marinette*
Daniels, Harold Edwin	*Oak Park, Ill.*
Davies, Thomas Homer	*Madison*
Degler, Louis Frederick	*Superior*

Dewey, Harlow Jay	*Lake Mills*
Dolan, Clementine Anna	*Cashton*
Duffy, Edwin Francis	*Watertown*
Dugan, Leo Francis	*Janesville*
Dugan, Ross Frank	*Memphis, Tenn.*
Ebert, Melvin Dunkel	*Charles City, Iowa*
Egan, Oswald Richard	*Highland*
Ehrlich, Jacob Isaac	*La Crosse*
Emery, John Colvin	*Kansas City, Mo.*
Engler, Carl John William	*Fountain City*
Enright, Paul Robert	*Mauston*
Evans, Elwyn	*Dodgeville*
Ewing, George Henry	*Richland Center*
Fairbank, Nelson Russell	*Fond du Lac*
Fargo, Normand Albert	*Appleton*
Farr, John Alderson	*Eau Claire*
Fauerbach, Karl Haertel	*Madison*
Flamer, Anton Engvold	*Milnor, N. Dak.*
Fox, Charles Anton	*Menomonie*
Fronk, William James	*Mishicot*
Galby, Manford Casper	*Chetek*
Gannon, Alyce E.	*Lodi*
Ganser, Herbert Aloysius	*Sauk City*
Gilland, George Hobart, Jr.	*Cheyenne, Wyo.*
Gilson, Edwin Russell	*Hammond, Ind.*
Gilson, Elmer Frank	*Gillett*
Gleason, Clifford John	*Arcadia*
Grayston, Alfred Kendrick	*Huntington, Ind.*
Habighorst, Edgar William	*Marinette*
Hanson, Curtis Raymond	*Scandinavia*
Hanson, Mendez Nathanial	*Whitehall*
Hardy, Loyd Earl	*Ashland*
Hawks, Charles, Jr.	*Horicon*
Heath, Stanley Gladstone	*Kenosha*
Hemenway, Robert Clark	*Carlsbad, N. Mex.*
Hendrick, Paul E.	*Virginia, Minn.*
Hendrikson, Joel Sedwin	*Madison*
Henika, Franklin Sinclair	*Madison*
Herreid, Thomas Nelson	*Madison*
Hertel, Andrew Henry	*Watertown*
Higgins, Joseph Jennings	*Aurora, Ill.*
Hilsenhoff, Raymond LeRoy	*Madison*
Hoffman, Irene Frances	*Fort Atkinson*
Holbrook, Elizabeth	*Oak Park, Ill.*
Holmes, Harold Harvey	*Pocatello, Idaho*
Houghton, Leonard William	*Madison*
Hoyt, Walter Edmund	*Rosendale*
Hunsader, Alban Joseph	*Algoma*
Hunt, Victor Clifford	*Madison*
Hurwitz, Isadore	*Milwaukee*
Irons, Raymond	*Algoma, Iowa*
Iwen, Wilbert Paul	*Shawano*
Jandrey, Edward Erdmann	*Neenah*

Johnson, Ira Milford	*Wautoma*
Johnston, David Martell	*Madison*
Johnston, Fremont Faville	*Appleton*
Johonnott, Robert John	*Beaver Dam*
Katz, Meyer Ralph	*New Glarus*
Keith, George Mason	*Dalton*
Kimball, Lyman Burdick	*Janesville*
King, Corinne Catherine	*Mazomanie*
Kirwin, Philip Francis	*Madison*
Kitchen, Ross Greenfield	*Madison*
Klemperer, Leo Arnold	*Chicago, Ill.*
Klieforth, Ralph George	*Fond du Lac*
Klockow, Merrill Henry	*Jefferson*
Knoller, Coniff William	*Dancy*
Knowles, Clay Gerald	*Madison*
Knudsen, Harold Rasmus	*Kenosha*
Kober, Kenneth	*Janesville*
Kohl, John Bertrum	*Juneau*
Kohn, Kathryn Carolyn	*Lake Geneva*
Kolicek, Marie Marcella	*Mishicott*
Koltes, Raymond John	*Dane*
Kopplin, Julius August	*Fall Creek*
Korfmacher, Raymond Frederick	*Cottage Grove*
Krause, Elmer George	*Milwaukee*
Krebs, Oswald Armand	*Waupun*
Krom, Isadore	*Withee*
Laskey, Harold Horace	*Superior*
Lemcke, Florence Ruth	*Middleton*
Leonard, Sidney Howard	*Kenosha*
Lewis, Bennett Robert	*Rhinelander*
Luecker, Ralph Frederick	*Brillion*
Lyman, Howard Bertram	*Madison*
Lyon, Evelyn Ree	*Logansport, Ind.*
McCarty, Harold James	*Brownsville*
McDonald, Thomas Roy	*Lancaster*
McGlasson, Albert Jackson	*Milwaukee*
McKivitt, Charles Christianson	*Racine*
Mackmiller, George Gilbert	*Ashland*
Magnuson, Gordon Edward	*Elkhart, Ind.*
Major, Harry Arthur	*Crandon*
Martinez, Pio Buenaventura	*San Isidro, P. I.*
Meng, Eugene Charles	*Madison*
Merow, Ernie Leo	*Sparta*
Meyer, Frank Paul	*Oshkosh*
Miller, Beulah	*Beloit*
Moeser, Marshall William	*Port Washington*
Mohme, Fred Stephen	*Elkhart Lake*
Morris, Edward David	*Cambria*
Morrison, William John	*Columbus*
Muth, Clarence Jacob	*Milwaukee*
Nelson, Lawrence Raymond	*Grand Rapids, Mich.*
Newcomb, Don Carlos	*Waupun*
Nightingale, Agnes Felicia	*Antigo*

Noble, Henry Harmden	*Madison*
Oakford, Calvin Curtiss	*Peoria, Ill.*
O'Hara, Arthur James	*Gary, Ind.*
Owens, Glenn	*Dodgeville*
Pagel, Rush	*Egan, S. Dak.*
Paige, Delbert Romig	*Wigwam, Colo.*
Pamperin, Franklin John	*La Crosse*
Paulson, G. Owen	*Washburn*
Payne, Joseph Cannon	*Danville, Ill.*
Pennefeather, Ambrose James	*Kenosha*
Peterson, Alfred Walter	*Waupaca*
Peterson, Walter Theodore	*Virgil, S. Dak.*
Pfeifer, Russell George	*Madison*
Pope, Henry, Jr.	*Chicago, Ill.*
Poppe, Cornelius	*Sheboygan*
Porter, Colby Arthur	*Fox Lake*
Purcell, John Robert	*Madison*
Qualle, Newell Edwin	*Martell*
Quinn, Veronica Rose	*Madison*
Ragatz, Wilmer LeRoy	*Madison*
Reeke, Irving Alfred	*Green Bay*
Reyer, Otis Henry	*Colby*
Rhode, Bernice Julia	*Kenosha*
Rieschl, Martin Andrew	*Bellingham, Wash.*
Riggert, Edwin William	*Reedsburg*
Roberts, Arthur George	*Fond du Lac*
Roberts, Clayton Brick	*Marlton, N. J.*
Roddewig, Dick	*Davenport, Iowa*
Roder, Eugene Arthur	*Madison*
Roewekamp, Carla Louise	*Oshkosh*
Ross, Cornelius Austin	*Doon, Iowa*
Runte, Otto D.	*Kaukauna*
Saari, Arthur Richard	*Eveleth, Minn.*
Sanborn, Henry Hobbins	*Madison*
Sanderson, George Webster	*Ironwood, Mich.*
Schadde, Esther Henriette	*Baraboo*
Schaekel, George Bernard	*Butternut*
Schlicht, William Michael	*Sheboygan*
Schmahl, Delbert Henry	*Jackson*
Schmuck, Robert Brouse	*Indianapolis, Ind.*
Schuetz, Ralph Julius	*Middleton*
Schujahn, Edwin Ludwig	*Fond du Lac*
Searing, William Edward	*Mankato, Minn.*
Seefeldt, Walter George	*Winslow, Ill.*
Seelman, Ralph George	*Milwaukee*
Sexton, Irene Marie	*Oshkosh*
Sheridan, Ralph Lloyd	*Fond du Lac*
Shuman, Gilman Leslie	*Madison*
Slezak, Mildred	*Racine*
Smith, Edgar Jacob	*Fort Atkinson*
Smith, Herbert Howard	*Iron River*
Spies, Jacob Alfred, Jr.	*Gillett*
Sprecher, George Edward	*Madison*

Spring, Lynn Sherwood	*Madison*
Starker, Henry Weinrich	*Burlington, Iowa*
Steiger, Emil Lee	*Milwaukee*
Stone, Julius Adler	*Beloit*
Strain, Marion Elven	*Lamar, Colo.*
Straka, Jerome Anthony	*Milwaukee*
Sun, Tsingfaung Alfred	*Shanghai, China*
Taylor, Harold Patrick	*Ashland*
Tegen, Albert Frederick	*Manitowoc*
Thorsen, Adolph Gebard	*Milwaukee*
Thorson, Harvey Allen	*Hawkins*
Thorson, Sidney Reuben	*Madison*
Tkadlec, Joseph Herman	*Cazenovia*
Tough, Rosalind	*Madison*
Tsu, Yang-Ding	*Shanghai, China*
Uhl, Lucile Anna	*Galesville*
Urbanek, Paul John	*Manitowoc*
Vetter, Gerhart Frederick	*Stevens Point*
Vonnegut, Carl Richard	*Indianapolis, Ind.*
Vornholt, Theodore Christian	*Madison*
Walsh, Edith Margaret	*Merrill*
Wanzer, Gordon Bradley	*Chicago, Ill.*
Weber, George Edwin	*Youngstown, Ohio*
Weidenfeller, Fred William	*Highland*
Weinman, Philip Alois	*Neenah*
Wells, Charles Lester	*Platteville*
Wiley, Archie Ray	*Hancock*
Wilkinson, Joe T.	*Benton*
Williams, Leland Wolcott	*Bear Creek*
Williams, Price Rundall	*Dodgeville*
Wisch, Carl Fred	*Fort Atkinson*
Yahn, Earl Edwin	*Janesville*
Zarne, Leon	*Milwaukee*
Zube, Arnold Gerhard	*Shell Lake*

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Course in Chemistry

Aagesen, Nicholas Schuyler	*Milwaukee*
Baldwin, Oliver William	*Mountain*
Ballam, George Alfred	*Madison*
Cheuvront, Frederick Bysshe	*Wellsburg, W. Va.*
Christensen, William Charles	*Madison*
Clancy, Alice Mary	*Racine*
Downie, Raymond Richard	*Madison*
Dunham, Paul Overing	*Elk Mound*
Duthey, Mabel Victoria	*Superior*
Fleischer, Hazel Anna	*Milwaukee*
Getschman, Walter Edward	*Kenosha*
Hoesly, John Jacob	*Neillsville*
Hoffman, Gilbert Frederick	*Milwaukee*
Hsu, Stanley Chitsen	*Shanghai, China*
Koepke, Herbert Albert	*Milwaukee*
Manns, Edward Albert	*Oconomowoc*
Morrissey, Donald Rothman	*Chilton*

Nixon, Fluvia Corinne	*Racine*	
Rust, Clarence Arthur	*Edgerton, Minn.*	
Sinclair, David	*Pasadena, Calif*	
Taylor, Stanton Eugene	*La Crosse*	
Van Steenberg, Victor	*Lansing, Ill.*	
Wingen, Karl Joseph	*Elk Mound*	--23

Course in Journalism

Bailey, Chester Wayne	*Grand Rapids, Mich.*
Barker, Marian	*Washington, D. C.*
Batcheller, Mabel Elizabeth	*Madison*
Beardsley, Vernon Charles	*Whitewater*
Bjerke, Jerome Oliver	*Stoughton*
Blossom, Thelma Davenport	*Indianapolis, Ind.*
Bohrer, Gertrude Ann	*Bloomington, Ill.*
Briggs, Elizabeth Mary	*Madison*
Brossiet, Haidee Beth	*Stratford*
Burgess, Nella Mae	*St. Louis, Mo.*
Burroughs, Ruth Mary	*Milwaukee*
Butler, Kenneth Blaine	*Kalamazoo, Mich.*
Callahan, Kitty Pauline	*Sharpsburg, Pa.*
Callsen, Margaret Anne	*Chicago, Ill.*
Capron, Marjorie Ethel	*Madison*
Cassell, Frances Elizabeth	*Hot Springs, Ark.*
Coates, Josephine Mercer	*Wausau*
Cole, Lois Alberta	*Norwalk, Ohio*
Conlee, Courtland Reed	*Madison*
Crane, Ezra Jennings	*Honolulu, Hawaii*
Davis, Anna Irene	*Oskaloosa, Iowa*
Douglas, Carlton Egbert	*Milwaukee*
Elbel, Bertha Margaret	*South Bend, Ind.*
Fitzgerald, Dean Joseph	*Toledo, Ohio*
Foy, Torrey Byers	*Freeport, Ill.*
Golay, Armand LeClerc	*Indianapolis, Ind.*
Gollmar, Robert Howard	*Baraboo*
Gottlieb, Louise Elizabeth	*Hutchinson, Kans.*
Griebling, Robert Theodore	*Milwaukee*
Hafner, Marion Louise	*Oak Park, Ill.*
Hanson, Kilbourne Helen	*Cambridge*
Hicks, Charles Henry	*Madison*
Jaeger, Harriett Marie	*Madison*
Kellogg, Ruth Adelaide	*Milwaukee*
Kildow, Fred Leslei	*Whitewater*
Killilea, Florence Louise	*Milwaukee*
Lawler, Joseph Francis	*Milwaukee*
Lawton, Dorothy Mildred	*Racine*
Learmonth, George Arnott	*Portage*
Lochner, Herman Peter	*Madison*
McDermand, Marian Jean	*Manitowoc*
McDonald, Malcolm Alphens	*New Richmond*
McKellar, Arlene Marieta	*Blanchardville*
Maier, Harold Ryan	*Antigo*
Malone, Eugene Cyril	*Madison*

Metz, Dorothy Solm	*Memphis, Tenn.*	
Mihelcic, John Florion	*Trimountain, Mich.*	
Morgan, Mary Margaret	*Spring Green*	
Neff, Marcelia Coad	*Milwaukee*	
Patmore, Lucie Olivia	*Ithaca, N. Y.*	
Porter, Edith Augusta	*Washington, D. C.*	
Reichert, Dorothy Rose	*West Bend*	
Sather, Melvin Elroy	*Park Falls*	
Schmuck, Virginia Dare	*Ranger, Texas*	
Schott, Elizabeth	*Detroit, Mich.*	
SeCheverell, Marion	*Madison*	
Sinaiko, Edith Elaine	*Madison*	
Smith, Robert Michael	*Madison*	
Spielberg, Irma Marguerite	*Twin Falls, Idaho*	
Stoffregen, Anna Catharina	*Rockville, Md.*	
Story, Mayo	*Bozeman, Mont.*	
Talbott, Basil Blanchard	*Grinnell, Iowa*	
Thorpe, Reed	*Salina, Utah*	
Wangenstein, John S.	*Duluth, Minn.*	
Wareham, Muriel Lucile	*Iowa Falls, Iowa*	
Warren, Frances Hull	*Cedar Rapids, Iowa*	
Wiles, Thelma Delphine	*St. Louis, Mo.*	
Will, Wilfred Chester	*Madison*	
Wilson, Catherine Smith	*Muskegon, Mich.*	
Wiseman, Charles Herbert	*Des Moines, Iowa*	
Wright, Carl Burton	*Mason City, Iowa*	
Wright, Edward Sylvan	*Oakes, N. Dak.*	—72

General Course

Bailey, Floyd Addison	*Baraboo*	
Busse, Warren Froemming	*Algoma*	
Butts, Robert Paddock	*Springfield, Ill.*	
Conine, William Hinman	*Nowata, Okla.*	
Freese, George Ernest	*Sioux Falls, S. Dak.*	
Gibson, Richard Fond	*Wisconsin Rapids*	
Hazen, Oakley William	*Mt. Hope*	
Hickey, Donald Hurlbut	*Whitewater*	
Hilberts, Esther Elizabeth	*Jefferson*	
Hopkins, Bert Earl	*Centuria*	
Irish, Russell Johnstone	*Madison*	
Jackson, Ben Frank	*Milwaukee*	
Leirich, John Albert se	*Seymour*	
Miller, Frank Roy	*Madison*	
Miller, Hazel Katherine	*Racine*	
Morris, Francis Walker	*Chicago, Ill.*	
Robertson, Paul Kedzie	*Evanston, Ill.*	
Smith, Florence Nina	*Shell Lake*	
Stites, Archer Cochran	*Madison*	
Sullivan, John Howard	*Delavan*	
Tyler, George Alexander	*Mellen*	
Williams, Eugene Griswold	*Oshkosh*	—22

Course in Humanities

Bilstad, Esther Warne	*Cambridge*	
Fletcher, Winifred Lucile	*Kalamazoo, Mich.*	
Hunting, Helen Thompson	*Cedar Rapids, Iowa*	
Jackson, Julia Morris	*Madison*	
Monfried, M. Bernard	*Madison*	
Sapper, Herbert David	*Guatemala, C. A.*	—6

Freshmen

Abbott, Cyril Edward	*Elgin, Ill.*
Abbott, Gordon Wells	*Elgin, Ill.*
Adams, Dorothy Juliet	*Chillicothe, Mo.*
Adams, Lawson M.	*Kenosha*
Ahern, Jane Elizabeth	*Madison*
Alexander, Jean	*Aurora, Ill.*
Allen, Thomas C.	*Black River Falls*
Alvis, Arthur Rudolph	*Madison*
Alvis, Henry Clyde	*Madison*
Amble, Alva Theolina	*Ridgeway*
Amunson, Vera Violet se	*Mondovi*
Anderson, Helen Dorothy	*MacFarland*
Anderson, Janet Dow	*Stoughton*
Anderson, Richard Kvelve	*Madison*
Anderson, Ruth	*Milwaukee*
Anderson, Wells Foster	*Tomah*
Andrews, Leontine Linnea	*Escanaba, Mich.*
Andrews, Roy Linus	*Madison*
Arey, Gordon	*Oak Park, Ill.*
Ashcroft, Harold Edward	*Frederic*
Atkinson, Richard Crugor	*Cincinnati, Ohio*
Atwood, David Carpenter	*Madison*
Atwood, Mary Elizabeth	*Madison*
Atwood, Robert Burroughs	*Gays Mills*
Auracher, George	*Fort Madison, Iowa*
Austerman, Laura Margaret	*Madison*
Austin, Clarke Albert	*Madison*
Bach, Catherine Thecla	*Milwaukee*
Bach, Dorothy Helen	*Chicago, Ill.*
Bachhuber, Romana Marguerite	*Mayville*
Backus, Caroline Annette	*Lancaster*
Bacon, Rodney Leander	*New London*
Bailey, Thurman Ralph	*Blanchardville*
Baillie, Edward Peter	*Madison*
Baird, Grace	*Madison*
Baldwin, Jane Helen Cameron	*La Crosse*
Baldwin, William Starr	*Madison*
Ball, Dorothy Gertrude	*Freeport, Ill.*
Ballantine, Virginia Edith	*Bloomington*
Ballard, Grace Marie	*Milwaukee*
Bancroft, Catherine Lucille	*Blue Mounds*
Barsaloux, Helen Marjorie	*Chicago, Ill.*

Bartlett, Carolyn Ballance	*Wausau*
Barton, Margaret Joliette	*Madison*
Barton, Willis Franklin	*Edgerton*
Barwaser, Norbert Clement	*Evansville, Ind.*
Baughman, Evelyn Gaff	*Wolf Lake*
Baumle, Ben John	*Milwaukee*
Baumann, Dorothea Marie	*Milwaukee*
Beatty, Alice Cotton	*Birmingham, Ala.*
Bebb, Hubert Clarence	*Muskogee, Okla.*
Bell, Edwin Paul	*Oshkosh*
Bell, Margaret	*Tomah*
Bendeke, Elsa Elizabeth	*Manitowoc*
Benette, John Cyril	*Wilson, Mich.*
Benn, Herbert Putnam	*Medford*
Bennett, Gordon	*Viroqua*
Benson, Clifford Dempster	*Iola*
Benson, George Bancroft	*Richland Center*
Berger, Ilse Margaret	*Lakewood, Ohio*
Bergstresser, John Lot	*Springfield, Ill.*
Biebinger, Edna	*St. Louis, Mo.*
Bier, John Henry	*Mt. Horeb*
Bigham, Kathryn Grace	*Arcadia*
Billig, Florence May	*Sioux Falls, S. Dak.*
Blake, Helen Louise	*Madison*
Blake, William	*Fox Lake*
Blanchard, Eva Irene	*Madison*
Blatz, Ernestine Louise	*Milwaukee*
Blaul, Laura	*Burlington, Iowa*
Bleim, Melvin Louis	*Mellen*
Bliss, Sidney Howard	*Janesville*
Blodau, George Emil	*Madison*
Bogardus, Margaret Parks	*Harrisburg, Pa.*
Bolton, James Cornish	*Sioux City, Iowa*
Bonner, John Thomas	*Juneau*
Bowe, Frank John	*Edgar*
Bowen, Lois Glee	*Wellshire, Ohio*
Bowler, Madeline Edith	*Sheboygan*
Bowles, Helen Edith	*Chicago, Ill.*
Bowman, Francis Pavill	*Madison*
Boyd, Laura Corinne	*Kaukauna*
Bradley, Florence	*Madison*
Brannum, Helen	*Chicago, Ill.*
Brehm, Dorothy Elizabeth	*Racine*
Breitenbach, Florence Louise	*Madison*
Breitzman, Elizabeth Mary	*Fond du Lac*
Brewer, Constance Bernice	*Argyle*
Brewster, Helen Mansur	*East Troy*
Brill, Max	*Green Bay*
Brindley, Benjamin Isaac	*Boscobel*
Brinkman, Gertrude	*Madison*
Brown, Elizabeth	*Toledo, Ohio*
Brown, Elizabeth Coit	*St. Louis, Mo.*
Brown, Harriet Selena	*Peoria, Ill.*

Brown, Lorraine	*Wauwatosa*
Brown, Theodore Taggart	*Madison*
Bruemmer, Miles Richard	*Algoma*
Bruner, Frank Gerald	*Black River Falls*
Bryant, Grace Francis	*Chicago, Ill.*
Buckley, Dorsey Albert	*Port Edwards*
Buemming, John Durr	*Milwaukee*
Bump, Millard	*Wausau*
Bur, Arnold George	*Green Bay*
Burd, Louise Edith	*Milwaukee*
Burdick, Doris Lucile	*Sheboygan*
Burke, Clare Walter	*Pontiac, Mich.*
Burkhardt, Dorothy Ehman	*Chicago, Ill.*
Burkman, Florence Linnea	*Roscoe, Ill.*
Burns, Dorothy Estelle	*Madison*
Burns, Lilah Florence	*Sturgeon Bay*
Burt, Helen Maddox	*Chicago, Ill.*
Burton, Margaret Maryan	*Lake Geneva*
Burton, Mary Grace	*Chicago, Ill.*
Busch, Lillian Eleanor	*Oshkosh*
Bussey, Venice Marguerite	*Edgerton*
Butler, Eleanor Bell	*Chicago, Ill.*
Caldwell, Stanley Robert	*Lodi*
Calliss, Julia Elizabeth	*Baraboo*
Callsen, Helen Christine	*Chicago, Ill.*
Camp, Virginia Mary	*Des Moines, Iowa*
Cannon, Frances Amelia	*Chicago, Ill.*
Canuteson, Elsie Elizabeth	*Madison*
Carlquist, Signe Josephine se	*Williams Bay*
Carlsen, Elmer Walter	*Blanchardville*
Carrell, Lois se	*Chicago, Ill.*
Carter, Clinton Lyle	*Castlewood, S. Dak.*
Case, Charlotte Sara	*Oshkosh*
Case, Eva Foljohn	*Ft. Atkinson*
Cass, Violet Verda	*Richland Center*
Catterton, Frank John se	*Canadian, Tex.*
Cavanaugh, Dorothy Mary	*Crystal Falls, Mich.*
Cayley, Freda Isabelle	*Omaha, Neb.*
Chapman, Vera Catherine	*Great Bend, Kans.*
Check, Orphelia Wilhelmina	*Madison*
Cheng, Hurtin Ta Tung	*Peking, China*
Choinski, Walter Frank	*Milwaukee*
Cholseth, LeRoy John	*Cambridge*
Chorlog, John Ingolf	*Madison*
Chorlog, Margaret Kristine	*Madison*
Chudnow, David	*Long Beach, Cal.*
Cizon, Max Nathaniel	*Milwaukee*
Claney, James Waters	*Chicago, Ill.*
Clapp, Don	*Madison*
Clapp, Frederick Horton	*Morris, Ill.*
Clarenbach, Marie Treslyun	*Milwaukee*
Clark, Alice Whitton	*Oak Park, Ill.*
Clark, Helen Louise	*Peking, China*

Clark, Juliet Madelem	*Oshkosh*
Clemetsen, Erling	*Chicago, Ill.*
Cleveland, Paul Cleveland	*New York City*
Clevidence, Helen	*Mount Morris, Ill.*
Cnare, Dorothea Maxine	*Madison*
Cochrane, Helen Jane	*Monticello, Iowa*
Cockrell, Alice Marjorie	*Chicago, Ill.*
Coe, Ora Elizabeth	*Barron*
Cole, Llewellyn Rathben	*Clintonville*
Coleman, Elizabeth Grace	*Madison*
Collins, John Carleton	*Madison*
Collins, Paul Edward	*Clinton*
Cone, Sydney M. Jr.	*Baltimore, Md.*
Cook, Harry Cameron	*Evanston, Ill.*
Cook, Mary Edith se	*Pittsburgh, Pa.*
Coon, Margaret Irene	*Madison*
Cooper, Leland Rogers	*Madison*
Cory, Mary Elizabeth se	*Delavan*
Costigan, Stella Marcelline	*Madison*
Cotton, Bessie Ramona	*Clintonville*
Coulter, Harold Leroy	*Des Moines, Iowa*
Cramer, Stella Mae	*Madison*
Cranefield, Harold Alfred	*Madison*
Cremer, Annabelle Beatrice	*Cashton*
Cremer, Helen Marie	*Red Wing, Minn.*
Cretney, Helen Elizabth	*Madison*
Crook, Francis Joseph	*Janesville*
Crowley, Clifford Gordon	*Eau Claire*
Crozier, Mildred Mary	*Chicago, Ill.*
Culbertson, James Gordon	*Stanley*
Cunniff, Hilda Spink	*Lisbon, N. H.*
Cushman, Helen	*St. Paul, Minn.*
Dahle, Alice Marie	*Mount Horeb*
Damsheuser, Carl William	*Appleton*
Danto, Rosabelle	*East Jordan, Mich.*
Darling, Frank Edward	*Milwaukee*
Davidson, Avery	*Oshkosh*
Davies, Alice Julia	*Milwaukee*
Davies, Francis Lloyd	*Waukesha*
Davis, Catherine	*Oak Park, Ill.*
Dawson, John Coleman	*Dalhart, Tex.*
Day, Juanita Jewel	*Madison*
Denison, John DeLos	*Des Moines, Iowa*
DeNosaquo, Norman Victor	*Milwaukee*
Denu, Philip Edwin	*Bemidji, Minn.*
Deutsch, Willard Bachrach	*Kansas City, Mo.*
Devine, Mary Louise	*Madison*
Dewarzeger, Victor Theodore	*Green Bay*
Dewey, Ruth Emma	*Middleton*
Diebold, Marshall John	*Madison*
Dieckhoff, Ruth Velma	*Fort Atkinson*
Diehl, Martha Mary	*Uniontown, Pa.*
Diestelmeier, Florence Elizabeth	*Lena, Ill.*

Dietrich, Katharine Packard	*Madison*
Dingman, Olive Naomi	*Chicago, Ill.*
Dingman, Virginia Heathers	*Chicago, Ill.*
Dixon, Alice Noble	*Oak Park, Ill.*
Dixon, George Lewis	*Evansville, Ind.*
Doke, Howard Bailey	*Madison*
Donkle, Harold LaSalle	*Plymouth, Ill.*
Donovan, Joseph Thomas	*Madison*
Donovan, Ruth Adelaide	*Madison*
Dougherty, Catherine Mary	*Janesville*
Drake, Lauren Jay	*Chicago, Ill.*
Dregney, Lenore Kristine	*Milwaukee*
Drew, John Frank	*La Farge*
Druse, Ethel Dorothy	*Milwaukee*
Duddleston, Leroy Joseph	*La Valle*
Dunbar, Jean Partridge	*Elkhorn*
Duncan, Glenn Allen	*Madison*
Dye, Edward Ellsworth	*Detroit, Mich.*
Dyrud, Kristian Wyolf	*Baraboo*
Eckert, Diana Erna	*Markesan*
Eisler, Ruth Lois	*Hampshire, Ill.*
Eldredge, Mary Adalene	*Savanna, Ill.*
Ellestad, Agnes C. se	*Madison*
Ellingson, Margaret	*Edgerton*
Ellis, Joyce DeVoe se	*Madison*
Ellis, Virginia Constance	*Milwaukee*
Elser, Mildred Beatrice	*Beaver Dam*
Emmanuel, Karl William	*Shawano*
Emery, Fern Kathryn	*Kenosha*
Emery, Floyd Nelson	*Reedsburg*
Engelking, William	*Evanston, Ill.*
Englebert, Mildred Josephine	*Algoma*
Eno, Kernut Van	*Madison*
Epstein, Ethel Ruth	*Delavan*
Erenfeld, Fred Robert	*Minot, N. Dak.*
Erickson, Inez Martha	*Madison*
Ernst, Daisy Elizabeth	*Madison, Ind.*
Estes, Grace Winifred	*Janesville*
Evans, Dorothy Leonora	*Oak Park, Ill.*
Evans, Evan Alfred	*Baraboo*
Evans, Roy Morgan	*Bangor*
Farnham, Katharine se	*Portland, Maine*
Farrand, David Osborn	*Milwaukee*
Farrand, Wallace Crugar	*Melrose*
Farrington, Isabel	*Madison*
Feak, John Milburn	*Bangor*
Fearer, Henry Lawson	*Madison*
Feeney, Agnes Mary	*Madison*
Feeney, Anne Mary	*Madison*
Feeney, Catherine Mary	*Madison*
Fellows, Donald McKinley	*Algoma*
Fellows, John R.	*Lansing, Iowa*
Fiedler, George Joseph	*Mineral Point*

Fifield, Esther Georgiana se	*Janesville*
Finucan, Francis Clark	*Antigo*
Fisher, Goebel Earl	*Firesteel, S. Dak.*
Fisher, Marion May	*Webster Grove, Mo.*
Fletcher, Ruth Anna	*Bangor*
Flinn, Lora Mary	*Baraboo*
Flood, Inez Mae	*Portage*
Flower, Jeanne Va Norma	*Wellington, Kans.*
Forsyth, Dorothea Lucy	*Merrill*
Foster, Florence Geraldine	*Peoria, Ill.*
Fowler, Beatrice	*Chicago, Ill.*
Fox, Anna Katharine	*Madison*
Frank, Rosalyn Mildred	*Sparta*
Franseen, Clifford Carlton	*Frederic*
Freidag, Helen Elizabeth	*Freeport, Ill.*
Freitag, Samuel August	*New Glarus*
Freund, Robert Richard	*Evansville, Ind.*
Friedl, Clement Anton se	*Madison*
Friedl, Raymond John	*Madison*
Fritz, Wilma Elizabeth	*Lake Mills*
Fromm, Clarence William	*Elkhart Lake*
Frye, Gerrit	*Madison*
Frye, Orville Myron	*Emmetsburg, Iowa*
Fryer, Mildred Irene	*Tomah*
Furlong, Thomas Francis Jr.	*Milwaukee*
Gabriel, Dwight Sheppart	*Clinton, Iowa*
Gage, Everett Lyle	*Whitehall*
Gale, Lucy Louise	*Evanston, Ill.*
Gallagher, Margaret Ruth	*Wilmette, Ill.*
Galligan, Margaret Ann	*Oakland City, Ind.*
Garlick, Mabel	*Chicago, Ill.*
Gault, Marion Louise	*Portage*
Gehan, Evelyn Marie	*Rice Lake*
Geller, William Douglass	*St. Louis, Mo.*
Gibbs, Dorothy	*Oak Park, Ill.*
Gibler, Virginia Gabriella	*Huntington, Ind.*
Gilbert, Alice Marinette	*Oklahoma City, Okla.*
Gilbert, Gretchen Louise	*Madison*
Gilbert, Harland Frederic	*Aberdeen, S. Dak.*
Gilder, Reva Clara	*Lancaster*
Godfrey, Marjorie Elizabeth	*Waupaca*
Goedecke, Raymond	*Merrimac*
Goldman, Melvin S.	*Milwaukee*
Goldman, Theodore Heizl	*Green Bay*
Gorman, Gerald	*Chicago, Ill.*
Gould, Ethel	*Coloma*
Graff, Lois	*Boscobel*
Graham, George Bayington	*Tomah*
Graham, Margaret Eleanora	*Ellsworth*
Gray, Floyd John	*Springfield, Ill.*
Gray, Ida Ellen	*Madison*
Gray, Maude Alena	*Devils Lake, N. Dak.*
Gray, Rose Mary	*Janesville*

Greenberg, Gilbert Charles	*Gary, Ind.*
Greene, Ruth Margaret	*Oconomowoc*
Greer, Katherine Louise se	*Davenport, Iowa*
Griesser, Hans Richard	*Chicago, Ill.*
Griffey, Leon John	*Janesville*
Griffiths, Raymond Marvelly	*Madison*
Groom, May Edith	*Warren, Ill.*
Groth, Cornelia Christine	*Watertown*
Grover, Frank Harding	*Galesville*
Guenther, Valentine Carl	*Sheboygan*
Guild, Marian Bernice	*Kansas City, Mo.*
Gumm, Meta Mildred	*Madison*
Gunderson, Lester Raymond	*Chicago, Ill.*
Gunnnison, Ivor Edmund	*Madison*
Gustorf, Frederick	*Madison*
Hagan, Helen Edith	*Dayton, Ohio*
Haglund, Alvin Serem	*Hurley*
Hahn, Frederick Anthony	*Watertown*
Hahn, Julia Ellen	*Kenosha*
Halperin, Myron	*Madison*
Halperin, Rose Marjorie	*Madison*
Halverson, Hazel Mabel	*Stoughton*
Hambrecht, Gertrude Emilie Minnie se	*Middleton*
Hammerly, Fridolin Fred	*Monticello*
Hammond, Lois Emma	*Antigo*
Hanisch, Hazel Melita	*Waupun*
Hanley, Mildred Bernice	*Mount Horeb*
Hanlon, Mae Marcella	*Cherokee, Iowa*
Hansen, Arthur Chester	*Racine*
Hansen, Eleanor Cary	*Madison*
Hansen, Mildred Elizabeth se	*Evansville*
Hansen, Myrtle Louise	*Madison*
Hanson, Donald Parker	*Milwaukee*
Hanson, Florence Maree	*Baileys Harbor*
Hanson, Lloyd Truman	*Deerfield*
Hardgrove, Maurice A. Francis	*Fond du Lac*
Hardy, Genevieve Babbitt	*South Bend, Ind.*
Harmon, Robert Lawrence	*Oshkosh*
Harney, Angus Eugene	*Racine*
Harriman, Dorothy Sevilla se	*Glenwood City*
Harrington, John Timothy	*Madison*
Harrington, Katherine Hayes	*Oshkosh*
Harris, Edith Aurelius	*Chicago, Ill.*
Harris, Louise Nina	*Indianapolis, Ind.*
Harris, Welton Winans	*Racine*
Harrison, Elizabeth Harriet	*Sparta*
Hart, Pauline Carolyn	*Chicago, Ill.*
Hartley, Geneva Edith	*Milwaukee*
Haskins, Dorothy Harriet	*Madison*
Hastings, Dorothy	*Atchison, Kans.*
Hayes, James Patrick	*Madison*
Hays, Charles Abraham	*Milwaukee*

Heideman, Vera Genevieve	*Maywood, Ill.*
Heineman, Ellis Richard	*Madison*
Heller, Dorothy Marian	*Milwaukee*
Hemingway, Jean Dorothy	*Chicago, Ill.*
Hempfling, Lucile	*Mount Vernon, Ind.*
Henderson, Jennie Maxine se	*Leavenworth, Kans.*
Hendricksen, Lillian Cornelia	*Grafton, N. Dak.*
Hendry, Chester Scoville	*Madison*
Hennecke, Margaret	*Milwaukee*
Henry, Mary Muir	*Wonewoc*
Hering, Kathleen Marion	*Shell Lake*
Herman, Helen Katherine	*Sheboygan*
Hermes, Cora Elmyra	*Racine*
Herring, Minnie Marrie	*Wynnewood, Okla.*
Heuston, Emoy Mark	*Tacoma, Wash.*
Hewitt, Fred Charles	*Woodruff*
Hewitt, Harriet Alice	*Oconomowoc*
Hickey, Agnes Hazel	*Reedsburg*
Hickey, Mary Lorraine	*Reedsburg*
Hickman, Virginia Jane	*Madison*
Hickok, Ward Romayne	*Madison*
Hicks, Earl Vincent se	*Sheboygan*
Hiestand, William Andrew	*Madison*
Higgins, Anna Marguerite	*Milwaukee*
Hildreth, Malitta Fischer	*Madison*
Hiles, Elberta Alice	*East Aurora, N. Y.*
Hill, Fred Clark	*Crivitz*
Hillberry, Ardath	*Blue River*
Hilpertshauser, Evelyn Anna	*Sheboygan*
Hilton, Robert Kornitzer	*Socorro, N. Mex.*
Hindin, Nathan	*Milwaukee*
Hinman, Mildred	*Sandwich, Ill.*
Hinners, Florence Miriam	*Chicago, Ill.*
Hinsdell, Carolyn	*Des Moines, Iowa*
Hirsig, Mildred Elizabeth	*Mount Horeb*
Hoadley, Claire Dupre	*Baraboo*
Hobart, Margaret Caroline	*Momence, Ill.*
Hocking, Elton C.	*Rockford, Ill.*
Hocking, Pearl Elizabeth	*Huron, S. Dak.*
Hodges, Madeline Sullivan	*Madison*
Hoebel, Pauline Verthein	*Madison*
Hoelz, Marion Cacilia	*Burlington*
Hollister, Seymour W.	*Oshkosh*
Holmes, Enid Arvella	*Rockford, Ill.*
Holmes, Robert Francis	*Baraboo*
Holmes, Willard Farnsworth	*Chicago, Ill.*
Holt, Leda Louise	*Waukesha*
Honeycomb, Kliment LeRoy	*Madison*
Hopkins, Stanley Webb	*Chicago, Ill.*
Hoppe, Marguerite Carolyn se	*Kenosha*
Horstman, Ione Kimball	*Baraboo*
Hosmer, William Truman	*Romeo, Mich.*
Howell, Claire	*Fennimore*

Howell, Dorothy Louise	*Hinsdale, Ill.*
Huddleston, Halmond Paul	*Ladysmith*
Huff, Forrest Gibbs	*Boscobel*
Hume, George Clifford	*Chilton*
Humiston, Helen Woodworth	*Madison*
Hunt, Emilie Harriet	*Madison*
Hunt, Helen Margaret	*Madison*
Hurlbut, Mary Bingham	*Omro*
Hyer, Hazel Helen	*Jefferson*
Hyslop, Virda Rose	*Blair*
Irwin, James Wesley	*Madison*
Isaacson, Leon Erwin	*Spring Valley*
Iverson, Dagmar Christine se	*Stoughton*
Jackman, Willmarth Livingston	*Madison*
Jacobson, Phil Lawrence	*Appleton*
James, Beulah Laura	*Richland Center*
Jandell, Blanche Lydia se	*Milwaukee*
Jarvis, Arnold Goodman	*Eau Claire*
Jegi, Henry Aaron	*Galesville*
Jensen, Alice	*Madison*
Jensen, Ruth Evelyn	*Stoughton*
John, Dorothy A.	*Milwaukee*
Johns, Catherine Breese	*Antigo*
Johns, Cedric Perkins	*Dodgeville*
Johnson, Arthur Calvin	*Elgin, Ill.*
Johnson, Edwin Clarence	*Conde, S. Dak.*
Johnson, Elizabeth	*Madison*
Johnson, Emma Josephine	*Eau Claire*
Johnson, Frederick Wall	*Rockford, Ill.*
Johnson, Lucille Margaret	*Lemont, Ill.*
Johnson, Maurice Lee	*Chicago, Ill.*
Johnson, Phillip Fenton	*Galesburg, Ill.*
Johnson, Roswell Browand	*Gary, Ind.*
Johnson, Ruth Elizabeth	*Sioux City, Iowa*
Johnson, Vernalene Maria	*Evansville*
Johnson, Virginia Cecil	*Chicago, Ill.*
Johnston, June Hannah	*Des Moines, Iowa*
Jome, Martha Fjelde	*Sawyer*
Jones, Donald Hugh	*Sioux Falls, S. Dak.*
Jones, Harold LaForest	*Madison*
Jones, Harry Jack	*Indianapolis, Ind.*
Jones, Maude Irene	*Peoria, Ill.*
Jones, Ruth Harriet	*Madison*
Judson, Marcella	*Chicago, Ill.*
Junkins, Myron Baker	*Wauwatosa*
Kadow, Archie Max	*Manitowoc*
Kammer, Adolph Gottlieb	*New Glarus*
Kandel, Ernestine Veronica	*Oconto*
Kane, Velma Gertrude	*Milwaukee*
Katz, George	*New Glarus*
Keeler, Clara	*Rockford, Ill.*
Kehl, Leo Thomas	*Madison*
Keith, Donald Coin	*Galesville*

Keller, Miriam Kratze	*Milwaukee*
Kellogg, Mary Virginia	*Baraboo*
Kerr, Stella Mildred	*Mazomanie*
Kerwin, Joseph James	*Madison*
King, Dorothy Alice	*Wilmette, Ill.*
Kittleson, Gertrude Inez	*Madison*
Klein, Esther Wilson	*Natick, Mass.*
Kler, Joseph Henry	*Black River Falls*
Klerner, Martha se	*New Albany, Ind.*
Kletzien, Helmuth Gerard	*New Holstein*
Kleven, Pearl Marie	*Mount Horeb*
Klinger, Ruth Helen se	*Milwaukee*
Kluender, Wilma Elizabeth	*Edgerton*
Knapp, Ruth Ann se	*Wilmette, Ill.*
Knauf, Margaret Elizabeth	*Kiel*
Knecht, Elizabeth Sophia	*Chicago, Ill.*
Knollin, Mabel Mary	*Pocatello, Idaho*
Koch, Elsie Pauline	*Mount Horeb*
Koelzer, Wiley Peter	*Antigo*
Krakow, Karl August	*Deerfield*
Krause, Almyra Henrietta	*Milwaukee*
Kreatz, Lorraine Ione	*Bemidji, Minn.*
Kreutzer, John George	*Athens*
Krieser, Lionel Ira	*Green Bay*
Kroeplin, Frederick Carl	*Milwaukee*
Kroster, Gladys Evangeline	*Cambridge*
Kuehlthau, Brunetta Avis se	*West Bend*
Kuehn, Else Martha	*Milwaukee*
Lake, Ivan Clyde	*Marshall*
Lallier, Halcyon Woodward	*Madison*
Lamb, Sarah Janette	*Janesville*
Lange, Paul, Jr.	*Delavan*
Lapley, Melva Harriett	*Madison*
Lappley, Vera Laura	*Madison*
Larsen, Frederick	*Kenosha*
Larsh, Jack Arlan	*Rensselaer, Ind.*
Larson, Ruth Marion	*Madison*
Lauter, Minna Margaret	*Indianapolis, Ind.*
Leavitt, Ned Harrison	*Sioux Falls, S. Dak.*
Leberman, Fulton Herman	*Sheboygan*
Lee, Burton Joseph	*Cashton*
Lee, Vera Kneebone se	*Eveleth, Minn.*
LeMay, Emma Virginia	*Cobban*
Lenont, Stanley Evans	*Virginia, Minn.*
Lenzer, Shirley Mae	*Madison*
Lerner, Maurice I.	*Milwaukee*
Levitin, Simon Samuel	*Madison*
Lewis, Frances Alice	*Madison*
Lewis, Helen	*So. Milwaukee*
Lewis, Lucile	*Detroit, Mich.*
Lewis, Ruth	*Oklahoma City, Okla.*
Liden, Hilma Marie	*Erie, Pa.*
Lifvendahl, Frances Elizabeth	*Chicago, Ill.*

Lindley, Addie Marie se	*Pecatonica, Ill.*
Lipari, Emma P. E.	*Madison*
Lipman, William Harry	*Antigo*
Lippert, Jesse Albert	*Milwaukee*
Longnecker, Lois Joy	*Niellsville*
Look, Arthur Clarence	*South Kaukauna*
Lowe, Helen Prudence	*Whitehall*
Lowth, Catherine Mary	*Columbus*
Ludden, Leila Gladyse	*Bloomington*
Luehr, Robert William	*Manitowoc*
Luehring, Fred Langlass	*West Allis*
Luenzmann, Leonore Schell se	*Milwaukee*
Lull, Raymond Mills	*Milwaukee*
Lundberg, Ernest Wilhelm	*Superior*
Lynd, Margaret Perry	*Grand Rapids, Mich.*
Lynd, Ruth Esther	*Grand Rapids, Mich.*
Lyons, Helen Audrey	*Madison*
Lyons, James Warrington	*Oak Park, Ill.*
Lyster, Adeline Elenore se	*De Forest*
McCarthy, Mary Bernice	*Eden*
McCaul, Katherine Agnes	*Tomah*
McClun, Mary Ethel se	*Chicago, Ill.*
McCorkle, William Smith	*Richland Center*
McDonald, Vivian Bernice	*Black River Falls*
McGreane, Frank Xavier	*Shullsburg*
McGregor, Catherine Louise se	*La Grange, Ill.*
McGuire, Leo John	*Waunakee*
McIntosh, Mavis	*Milwaukee*
McKenna, Marie Ellen	*Madison*
McKinnon, Duncan William Herbert	*Menasha*
McMurry, Edith Nott	*Madison*
McMurry, Neil Burns	*Madison*
McNamara, Jean Elizabeth	*Janesville*
McNeil, Emerson Duncan	*Virginia, Minn.*
MacNichol, Neal Howard	*Oshkosh*
MacRavey, Alonzo Fuller	*Madison*
Mahany, Helen Mae se	*Madison*
Mahorney, Mary Elizabeth	*Madison*
Mainland, Kenneth Sinclair	*Oshkosh*
Malatt, Grace Peden se	*Detroit, Mich.*
Mantell, Jacob Francis	*Racine*
Marquis, Paul Albert	*Hamilton, Mo.*
Marshall, Dorothy Irene	*Beloit*
Mason, Marjorie Helen	*Highland Park, Mich.*
Masslich, Beverly Treen	*River Forest, Ill.*
Mathis, Dorothy se	*Prophetstown, Ill.*
Matsen, Helene	*Oregon*
Matthews, Ruth Henrietta	*Racine*
Maxcy, John Danforth	*Washburn*
Mayer, Carl Gottfried	*Chicago, Ill.*
Mayer, Dorothy Luella	*Devils Lake, N. Dak.*
Mayhew, Annette Kay se	*Chicago, Ill.*

Megow, George Edward	*South Milwaukee*
Melaas, Thelma Maleda	*Madison*
Mercer, Isabel Gillette	*Saginaw, Mich.*
Merrill, Ruth Putnam	*Salem, Mass.*
Metcalf, Lou	*Baraboo*
Metz, Frances Rosina	*Madison*
Meyer, Francis William	*Madison*
Meyer, Margaret Dorothy	*Wauwatosa*
Meyers, Henry August	*Madison*
Meyland, Gunther Christian	*Milwaukee*
Miles, Leslie	*Evansville*
Miley, James Barrett	*Milwaukee*
Millar, Malcolm Gray	*Madison*
Miller, Enoch Walter	*Sheboygan*
Miller, Gertrude Loretta	*Green Bay*
Miller, Gladwyn Fred	*Compton, Ill.*
Millian, John Edward	*Springfield, Ill.*
Mitchell, George Wilder	*Madison*
Modisett, Philip Evans	*Milwaukee*
Moehlenpah, Alice	*Clinton*
Mogg, Millard E.	*Indianapolis, Ind.*
Montgomery, Irene	*Findlay, Ohio*
Moore, Alfred Nash	*Rockport, Ill.*
Moore, Lawrence Moses	*Benton, Ill.*
Moore, Raymond Jennings	*Milwaukee*
Morau, Harriet Agnes	*Beloit*
Morgan, Arthur Patrick	*Superior*
Moritz, Blanche Ellingwood	*Kenilworth, Ill.*
Morley, Walter Kelly, Jr.	*Madison*
Morony, Thomas Ward	*Valparaiso, Ind.*
Morris, Isabel Martha	*Janesville*
Morrison, Garnet Irene	*Madison*
Morrison, Jessie Agnes	*Columbus*
Morrissey, Hazel Kathryn	*Arena*
Morrissey, Lucille Clara	*Madison*
Morrow, Grace Caroline	*Hinsdale, Ill.*
Mosel, Marjorie Elspeth	*Madison*
Mosley, Madoleene Madge se	*Madison*
Mueller, Charles Imiz	*Sheboygan*
Muenzberg, Paul Henry	*Milwaukee*
Mullen, Earl Stanley	*Deerfield*
Munson, Earl Henry	*Loudon*
Muren, Myrtle Gertrude	*Madison*
Murphy, Agatha Virginia	*Madison*
Murphy, Nelle.	*Friend, Nebr.*
Murry, Donald Franklin se	*Mount Awburn, Ill.*
Muscheid, Gladys Elizabeth se	*La Crosse*
Nathenson, Rose Annet	*Madison*
Neckerman, Eunice Elizabeth	*Madison*
Nehls, Una May	*Muscoda*
Nelson, Dorothy Elizabeth se	*Gillett*
Nelson, Elizabeth Olivia	*Red Wing, Minn.*
Newell, Helen Case	*Sioux Falls, S. Dak.*

Newell, Mae Edith	*Sioux Falls, S. Dak.*
Newman, Raymond J.	*Kinderhook, Ill.*
Newton, George Montgomery	*Sparta*
Nichols, Helen Louise	*Milwaukee*
Nicolaus, Alfred Herbert	*Fort Atkinson*
Nielsen, Stella	*Sparta*
Nitardy, Arthur	*Verona*
Noble, Karl Arnold se	*Rockford, Ill.*
Nolte, Clifford Simpson	*Wauwatosa*
Norgord, Gladys Molley	*Madison*
North, John Ringling	*Baraboo*
Nunlist, Elizabeth Evelyn	*Indianapolis, Ind.*
Oakes, Esther Marian se	*Canton, Ohio*
O'Brien, Stacey Weldon	*Fort Smith, Ark.*
Oliver, James Brett	*Green Bay*
Olson, Janet Mary	*Madison*
O'Malley, Mary Ailene	*Waunakee*
O'Mara, Elizabeth Frances Mary	*Monroe*
O'Neil, Genevieve Elizabeth	*Madison*
O'Neill, Catherine Elizabeth	*Madison*
Orcutt, Dora Jeanette	*St. Paul, Minn.*
Orcutt, Lester Raymond se	*Fontana*
O'Rourke, William Gavin	*Oshkosh*
Ostermann, Albert Heyn	*Milwaukee*
Othmer, Virginia Henrietta	*Wilmette, Ill.*
Ozburn, William Angus	*Madison*
Palmer, Lois Evelyn	*Wauwatosa*
Parker, Bernice Grace	*Madison*
Parks, Lovene Mary	*Cleveland, Ohio*
Patterson, Genevieve May se	*Evansville*
Pauly, William Jerome	*Milwaukee*
Peabody, Blanche	*Haverhill, Mass.*
Peet, Carolyn Lane	*Hinsdale, Ill.*
Perry, Walter Gordon	*Wauwatosa*
Perstein, Maurice	*Madison*
Peterson, Clara Bertina	*Mount Horeb*
Peterson, Donald Roswell	*Independence*
Peterson, Pauline Caroline	*Milwaukee*
Pett, Ella Marie	*Johnson Creek*
Pfeiffer, Virginia Ruth	*Piggott, Ark.*
Phelps, Thomas Russell	*Elderson*
Phillips, Neal John	*Chicago, Ill.*
Pierce, George Arthur	*Chicago, Ill.*
Pike, Doris Duncan	*La Grange, Ill.*
Pike, William Edward	*Quincy, Ill.*
Pio, Florence Lucille	*Fort Wayne, Ind.*
Piper, R. Grace	*Kenosha*
Platt, Agness Dorothea	*Elgin, Ill.*
Polacheck, Charles Sampson	*Milwaukee*
Polacheck, Dorothy Rose	*Milwaukee*
Pollock, Donald Arthur	*Milwaukee*
Popenhagen, Florence Gill	*Chicago, Ill.*
Porter, Howley Vinton	*Miles City, Mont.*

Porter, Mark Carl	*Fox Lake*
Portman, Raymond Joseph	*Ladysmith*
Poser, Frederick	*Columbus*
Powell, Della June	*Ridgeway*
Purcell, Margaret Rosemary	*Madison*
Quackenbush, Earl Charles	*Green Bay*
Quilty, Francis Cyril	*Madison*
Rabinoff, Samuel	*Hillsboro*
Ralph, Leland Paul	*Cuba City*
Ramsdell, Marion Lucinda	*Madison*
Raper, Dorothy	*East Cleveland, Ohio*
Ray, Olive R. M.	*Madison*
Ray, Paul Kenneth	*Chicago, Ill.*
Reed, Alfred Edgar	*Shawano*
Reed, Jacob Thomas	*Watertown*
Reid, Harry	*Chicago, Ill.*
Reilly, Ineva Frances	*Indianapolis, Ind.*
Reinholdt, Helen Paine	*Pasadena, Cal.*
Rekow, Albert Henry	*Loyal*
Rentz, Wilhelmina Alma	*Madison*
Reppert, Florence Bernice	*Madison*
Rice, Catherine Marie	*Saginaw, Mich.*
Richardson, Doris se	*Fargo, N. Dak.*
Rickett, Helen Margaret	*New York, N. Y.*
Ridings, Ethel Marion	*Washington, D. C.*
Ridings, Mary Cook	*Washington, D. C.*
Rieder, Marguerite Albertine	*Madison*
Rietz, Paul Charles	*Evansville, Ind.*
Riley, Mary	*Madison*
Ritzmann, Elizabeth Laura	*Oak Park, Ill.*
Roberts, Richard Ellis	*Sun Prairie*
Robin, Gertrude Wexler	*Wilmington, Del.*
Robinson, Helen Margaret se	*Madison*
Rock, Donald Andrew	*Superior*
Rood, Clara Catherine	*Madison*
Rosenbaum, Mose Kahn	*Milwaukee*
Rothenburg, Georgia Norma	*Springfield, Minn.*
Rowe, Edith Adelaide	*Oak Park, Ill.*
Rowe, Herbert James	*Wautoma*
Runge, Herman Carl Edward l	*Sheboygan*
Ruprecht, Helen Arline	*Chicago, Ill.*
Ruud, Myrtle Violet se	*Madison*
Ryan, Katherine Frances	*Chicago, Ill.*
Sailer, Albina se	*Chicago, Ill.*
St. John, Catherine Amy	*Green Bay*
Sala, Elizabeth Inez	*Davenport, Iowa*
Salentine, Lucille Susanne	*Milwaukee*
Salsbury, Robert Chappell	*Cazenovia, N. Y.*
Sammons, Elizabeth	*Sioux City, Iowa*
Samson, Gloraetta Gladys se	*Delavan*
Sanders, Charlotte Frances	*Chicago, Ill.*
Sanders, Gladys Malinda	*Mount Horeb*
Sanders, John Wallace	*Detroit, Mich.*

Sandsten, Emilie Dew	*Fort Collins, Colo.*
Scanlon, Helen Agnes	*Kentwood, La.*
Schacht, Evelyn Marie	*Huntington, Ind.*
Schaefer, Isabel Stone	*Hinsdale, Ill.*
Schafer, Elizabeth Jane	*Madison*
Schafer, Paul Abbott	*Madison*
Schiffman, Howard William	*Chicago, Ill.*
Schlotthauer, George McDermit	*Madison*
Schmedeman, Albert George, Jr.	*Madison*
Schmidt, Alfred Edward	*Columbus*
Schmidt, Anita Louise	*Saginaw, Mich.*
Schmitz, Catherine Henrietta	*Waunakee*
Schmitz, Gilbert J. B.	*Madison*
Schneider, Mary Louise se	*South Bend, Ind.*
Schoechert, Adolph Emil	*Whitewater*
Schoenknecht. Fred William	*Milwaukee*
Schoenlaub, Hazel Pauline	*Madison*
Schon, Frances Alma	*Springfield, Ill.*
Schrenk, Helmuth Herman	*Madison*
Schultz, Isadore	*Madison*
Schultz, Laura Mae	*Kenosha*
Scott, Veryl Erwin	*Cuba City*
Sears, Elizabeth Hyde	*St. Louis, Mo.*
Seeber, Fred Daniel	*Houghton, Mich.*
Seger, Lorraine se	*Madison*
* Seifert, Merlin Frank	*Jefferson*
Seltzer, Ruth Elizabeth	*Peoria, Ill.*
Seymour, Walter James	*Reedsburg*
Sharp, Eliot Hall	*Madison*
Sharp, Norman Graves Eyles	*Corning, N. Y.*
Sharratt, Violet Henrietta	*Madison*
Shattuck, Kathryn Louise se	*Coldwater, Mich.*
Sheakley, Evelyn	*New Hampton, Iowa*
Shearer, Kathryn Jane	*Madison*
Shepard, Vida Marie	*Madison*
Showalter, Alden Guyer	*Freeport, Ill.*
Siggelkow, Edwin Leslie	*McFarland*
Simmons, Elizabeth Carman	*Wilmette, Ill.*
Simpson, Daisy Isabelle se	*Rockford, Ill.*
Sisson, Dorothy Allison	*Madison*
Skinner, Allan Edwin	*Madison*
Slattery, Ralph Joseph	*Appleton*
Smart, Langley Edward	*Milwaukee*
Smedal, Angar Tengel	*McFarland*
Smith, Dorothy Ethel	*Madison*
Smith, Editha Blanche	*Chicago, Ill.*
Smith, Edna Margaret	*Two Rivers*
Smith, Leonore Marie	*Early, Iowa*
Smith, Lucy Carolyn	*Madison*
Smith, Marshall Henry	*Oshkosh*
Smith, Morris Jerome	*Rush Lake*

* Died January 14, 1922.

Smothers, Frank Albert	*Rossville, Ill.*
Snook, Dorothy Elizabeth	*Flint, Mich.*
Somers, Edward John	*Amherst*
Sorensen, Volmer Henrik	*Milltown*
Spilman, Lydia Augusta Martha	*Edgerton*
Spohn, Frances Adeline	*Madison*
Spooner, Alexander Dwight	*La Verne, Iowa*
Sporer, Harold Joseph	*Manitowoc*
Stangel, Milton Frank	*Manitowoc*
Stebbins, George Griswold	*Madison*
Steensland, Capitola Agatha	*Blanchardville*
Steig, Maynard Herman	*Whitehall*
Stell, Gerald William	*Madison*
Stein, Reginald Reed	*West Bloomfield, N. Y.* L
Steinman, Ruth	*Milwaukee*
Stenjem, Inez Wilhelmina	*Madison*
Stephenson, Dorothy Elizabeth	*Janesville*
Sterling, Russell Rhea	*Stanley*
Stewart, Donald Gordon	*Toledo, Ohio*
Stewart, Hazel Emerette	*Janesville*
Stilwill, Ruth	*Sioux City, Iowa*
Stiver, Mikeal LaMar se	*Goshen, Ind.*
Stocking, Jessie Eunice	*Lindewood, Ill.*
Stolte, Elizabeth G.	*Reedsburg*
Stolte, Will Arthur	*Reedsburg*
Stoltz, Gerald Hugo	*Milwaukee*
Stondall, Alice Mandt	*Madison*
Strader, Ula Kathryn	*Monroe*
Strauss, Carolyn Amelia	*Chicago, Ill.*
Street, Merl Cloyd	*Edgerton*
Streng, Marion se	*Grand Rapids, Mich.*
Stroh, Donald Charles	*Milwaukee*
Strong, William Warner	*Antigo*
Strutt, Isabel	*Ridgeway*
Struve, Marie Margaret se	*Davenport, Iowa*
Stubenvoll, Harvey Carl	*Shawano*
Sturtevant, John Chesley	*Wausau*
Sullivan, Willis Gregory	*Hurley*
Summers, Erwin Ruskin	*Huntington, Ind.*
Sutherland, Ione Vendella	*Seattle, Wash.*
Sutton, James Wynne	*Peoria, Ill.*
Swift, Eliot Elisha	*Norway, Mich.*
Swink, Alma Nellie	*Farmington, Mo.*
Switalski, Wanda R.	*Owen*
Tang, Ching Tseng	*Wusih, Kiangsu, China*
Talley, Delbert Homer	*Terre Haute, Ind.*
Tappins, Noble Lyon	*Madison*
Taub, David Livingston	*Pueblo, Colo.*
Taylor, Elizabeth Catherine	*Madison*
Taylor, Helen Alice	*Pierre, S. Dak.*
Taylor, Porter Case	*Ottawa, Ill.*
Taylor, Sarah Louise	*Greenville, Miss.*
Tegge, Mildred Margaret	*Popineau, Ill.*

Telford, Marian LaVerne	*Madison*
Tenhaeff, Carl Cedric	*Golden, Ill.*
Teschan, Rudolph Arnold	*Milwaukee*
Theis, Jane	*Algoma*
Thompson, Madeline Elizabeth	*Madison*
Thomson, Jean Millicent	*Portage*
Thomson, Ruth	*Portage*
Thorp, Harriet	*Evanston, Ill.*
Thorp, Jane Estelle	*Evanston, Ill.*
Tilker, Clarence Frederick	*Madison*
Tilton, Esther Jane	*Oshkosh*
Tinkham, William Stuart	*Oconomowoc*
Tipple, Frances Katherine	*Oregon*
Tipple, John Ellis	*Madison*
Toepfer, Esther Ottilie	*Madison*
Tompkins, Winn Thompson	*Clarion, Iowa*
Tostenson, Bernhardt Anker	*Manitowoc*
Towle, Arleen	*Wausau*
Truesdall, Jane	*Toledo, Ohio*
Trumbo, Strawn	*Ottawa, Ill.*
Tucker, Lillian Irene	*Madison*
Turgrimson, Carolyn Florence	*Chicago, Ill.*
Ulvestad, Genevieve Lucile	*Chicago, Ill.*
Van Edig, Olivia Barbara	*Middleton*
Van Tassel, Valentine	*East Cleveland, Ohio*
Vesper, Reuben Daniel	*Johnson Creek*
Vosburg, Mary Jeanette	*Fort Atkinson*
Wainright, Wilmer Garrette	*Green Bay*
Walker, Mary C.	*Toulon, Ill.*
Wall, Charles Emmet	*Antigo*
Walls, Janet Katherine se	*St. Paul, Minn.*
Walsh, Evelyn	*Mondovi*
Walsted, George Fitzgerald	*Milwaukee*
Walters, Freda Leone	*Dodgeville*
Wangenstein, Victor Carl	*Duluth, Minn.*
Wanzer, Lucile Clarinda	*Chicago, Ill.*
Warner, Virginia Jane	*Madison*
Wasserman, Miriam	*Chicago, Ill.*
Watson, Katharine Gertrude se	*Rossville, Ill.*
Weare, Buel Fellows	*Cedar Rapids, Iowa*
Webb, Louise	*Gilbert, Minn.*
Weber, Esther Bernice	*Johnson Creek*
Weideman, Ruth Ethel	*Columbus*
Weiland, Mildred	*Baraboo*
Weingandt, Hazel Dorothy	*Milwaukee*
Welsh, Lorenza William	*Green Bay*
Werden, Dorothea	*Ashland*
Wester, Carl William	*Rockford, Ill.*
Westgate, Allegra	*Walworth*
Westgate, Jo Ann	*Walworth*
Whedon, Alice Katherine se	*Appleton*
Wheelihan, Robert York	*Duluth, Minn.*
Whitaker, Lucy Jane	*Madison*

White, Alice Deloras	*Dubuque, Iowa*
White, Doris Elaine	*Eau Claire*
Whitehead, Irene Julian	*Menomonee Falls*
Whitfield, Robert Hamilton	*Oak Park, Ill.*
Whitney, Jane	*Milwaukee*
Widmann, Marguerite Carolyne	*Madison*
Wigodsky, David	*Milwaukee*
Wigonitz, Anne Harriet	*Madison*
Wildeman, Anna Catherine	*Madison*
Wilke, Adelheid Marie se	*Madison*
Willey, Howard Elsworth	*Lake Mills*
Williams, Leonard Rowland	*Cambria*
Winchell, Alexander Vaughn	*Madison*
Winnie, Helen Salome	*Reedsburg*
Wirig, Morris Harold	*Antigo*
Wittwer, Leatha Selina	*Monticello*
Witwer, Edwin C., Jr.	*South Bend, Ind.*
Wohlford, Mildred Bessie se	*Omaha, Nebr.*
Wolfe, Lillian Edith	*Madison*
Wolff, Hedwig	*Madison*
Wollaeger, Harriet Paula	*Milwaukee*
Wonser, Mermel Doris	*Granton*
Wood, Elvin Lyle	*Morris, Ill.*
Wood, Frances Emily	*Brook, Ind.*
Woodcock, Arline Laura	*Wilmette, Ill.*
Wray, Alice May	*Wilmette, Ill.*
Wylie, Lois Harriet	*Lake Geneva*
Yapp, Leone E.	*Madison*
Zeimet, Agnes Lillian	*Madison*
Zeman, Helen Jane	*Chicago, Ill.*
Zeman, Lauretta	*Chicago, Ill.*
Ziegler, Allen Melvin	*Moline, Ill.*
Zimmermann, Felix Herman	*Watertown*

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Course in Commerce

Aberg, Donlan Vincent	*Shell Lake*
Adams, Alice Marie	*Clinton, Iowa*
Alderman, Everett C.	*Nevada, Iowa*
Alexander, James Ray	*Hayward*
Allinder, Henry, Jr.	*Milwaukee*
Ambler, Charles Merrill	*Abington, Pa.*
Amstutz, William	*Monticello*
Anderson, Oswald Nickoly	*Madison*
Anderson, Alf. Harold	*Coon Valley*
Anderson, Ben Otto	*Ashland*
Arpin, Quentin Roy	*Luxemburg*
Atmore, Helen Louise	*Duluth, Minn.*
Auchter, Frieda Kathryn	*Madison*
Aylward, Paul Jerome	*Madison*
Bachmann, Gladys Pearl	*Eau Claire*
Baird, Nathaniel Taylor	*De Witt, Iowa*
Baker, Frederick Sherman, Jr.	*Evanston, Ill.*
Baker, John Ira	*Logansport, Ind.*

Baker, Kenneth	*Rewey*
Baltus, Charles John	*Laona*
Barber, George Warren	*Milwaukee*
Barlow, Lynn Bristow	*Darlington*
Barnett, Robert Harman	*Owensville, Ind.*
Barnett, Warren Wesley	*Owensville, Ind.*
Bates, Aubrey Ashcraft	*Madison*
Beatty, Robert Morgan	*Davenport, Iowa*
Beck, Lillian Marie	*Madison*
Bell, Glen Hugh	*Madison*
Bell, Sylvan Emerson	*Madison*
Bendler, Frederick Rosenow	*Sheboygan*
Benner, Arthur Thomas	*Fontana*
Berg, Harold Harvey	*Baraboo*
Bertrand, Joseph Bernard	*De Forest*
Bier, Wallace Jacob	*Mount Horeb*
Bird, Carol Martin	*Beloit*
Black, Robert Wilmer	*Baltimore, Md.*
Blair, Edward Blake, Jr.	*Chicago, Ill.*
Blumenstein, Neil Vogel	*Sullivan*
Boehringer, Elmer Louis	*Fremont, Ohio*
Bond, Leon Haen	*Oconto*
Boning, William Jones	*Milwaukee*
Borum, Charles Ward	*Barron*
Brainard, Donald	*Wayne, Nebr.*
Breaux, Charles Ballard	*Louisville, Ky.*
Bricker, Joseph M.	*Nevada, Iowa*
Bridge, Everett Mortemer	*Lake Mills*
Bridgman, John Fawcett	*Stanley*
Brigham, George Russel	*Madison*
Brokhausen, William George	*Freeport, Ill.*
Brown, Cecil Donald	*Ft. Atkinson*
Brown, Robert Fairchild	*Davenport, Iowa*
Bruce, James Stewart	*Boise, Idaho*
Bruning, Paul Jacob	*Brooklyn, N. Y.*
Buckbinder, James	*Milwaukee*
Burchard, Thomas Charles	*Fort Atkinson*
Burmester, LaVerne Egbert	*Middleton*
Caldwell, William Raymond	*Poynette*
Callen, Arthur Carl	*Bayfield*
Callen, Harry Gustof	*Bayfield*
Camlin, Theodore Edmund	*Rockford, Ill.*
Carpenter, Thomas Wheeler, Jr.	*Des Moines, Iowa*
Carr, Helen Bennett	*Lancaster*
Carson, Tom Henry	*Danville, Ill.*
Carter, Thomas Brandon	*Rockford, Ill.*
Casterline, Robert Dickinson	*Milwaukee*
Chandler, Hollis Anfred	*Plymouth*
Chase, Hamilton	*Topeka, Kans.*
Chesebro, Robert Edward	*Sheboygan*
Clausen, Stanley Edward	*Sheboygan*
Clawson, Paul Gerlach	*Minocqua*
Cohen, Harry Abraham	*Weyauwega*

Ccok, Robert Biel	*Chicago, Ill.*
Coutant, Paul Lyman	*Danville, Ill.*
Crawford, Eugene Flynn	*Rookford, Ill.*
Culver, Howard Leander	*Eau Claire*
Cunningham, Leonard L.	*Beaver Dam*
Cutts, Jerrold Joseph	*Wautoma*
Damon, Robert Hosken	*Spokane, Wash.*
Daoust, Clarence Daniel	*Saxon*
Davenport, John Rushmore	*Baraboo*
Davis, Smith Chellis	*Granton*
Dawson, George Waller, Jr.	*Dalhart, Texas*
Demmer, Howard William	*Manitowoc*
Desing, Hilmar Arnold	*Elkhorn*
Duff, Joseph Henry	*Iron River, Mich.*
Edison, Ora Belle	*Sun Prairie*
Egan, John Ryan	*Sturgeon Bay*
Elliott, William Davis	*Evanston, Ill.*
English, Wade Hampton	*Des Moines, Iowa*
Esser, Edward Charles	*Madison*
Evans, Ernest Russell	*Dodgeville*
Faull, Harry Matthews	*Bessemer, Ala.*
Felker, Harry Robert	*Peshtigo*
Feuchtwanger, Joseph, Jr.	*Chicago, Ill.*
Flarsheim, Robert Henry	*Kansas City, Mo.*
Fletcher, Edith Adele	*Chicago, Ill.*
Flinn, Albert Henry	*Baraboo*
Fluckiger, Frank Albert	*Dubuque, Iowa*
Flynn, Ellen Louise	*Madison*
Folkman, Carl Henry	*Clintonville*
Fong, Hsien-Hing	*Ningpo, China*
Foster, Gerald Lynn	*Sparta*
Fox, Walling Van	*Hot Springs, Ark.*
Franklin, Henry Myar	*Chicago, Ill.*
Frederixon, Helen Emelia	*Blair*
Freeman, Frank Avery, Jr.	*Milwaukee*
Garnich, Will, Jr.	*Ashland*
Gauger, Gladys Marie	*Janesville*
Gault, Philip Clinton	*Topeka, Kans.*
Gebhardt, Karl Fredrick	*Madison*
Gebhardt, William Russell	*Milwaukee*
Geiger, Isabelle Frances	*Monroe*
Geiwitz, Herbert Joseph	*La Crosse*
vonGermeten, Eugene George	*Racine*
Gevaart, Theodore Claude	*West Allis*
Giessel, Elmer Charles	*Wausau*
Gilbreath, John Schaff	*Detroit, Mich.*
Gill, Loretta Marian	*Madison*
Gillespie, Leland Warwick	*Green Bay*
Goedecker, Harold August	*Merrimac*
Goldberg, Robert S.	*Chicago, Ill.*
Goldstein, Irving	*Chicago, Ill.*
Goodman, Louis Abraham	*Marinette*
Grimes, Earl Russell	*Lancaster*

Grimm, Francis William	*Madison*
Gross, Harold David	*Necedah*
Grubb, Robert D.	*Janesville*
Gruenheck, Stella	*Fond du Lac*
Grunitz, Eric Otto	*Milwaukee*
Guild, Elliott William	*Des Moines, Iowa*
Gustaveson, Robert Gustave	*Manitowoc*
Gutz, Eppler	*Pomeroy, Iowa*
Haag, Leo Joseph	*Mt. Horeb*
Hager, Walter Aldmond	*South Bend, Ind.*
Hamilton, Bruce Maxwell	*Westfield*
Hammill, Beatrice Martha	*Beloit*
Hand, Herbert Lawrence	*Chicago, Ill.*
Hanna, Charlotte Hastings	*Geneva, Ill.*
Harebo, Verle Downer	*New Lisbon*
Harpster, John Shannon	*Freeport, Ill.*
Harris, Arthur Stanley	*Madison*
Hartwig, Walter Carl	*Fort Atkinson*
Hass, Firman Henry	*New Holstein*
Hatch, Hobart Hannibal	*Spring Green*
Head, Daniel Orin, Jr.	*Kenosha*
Hefty, Wilbert Jacob	*New Glarus*
Hemingway, Rene James	*Chicago, Ill.*
Henning, Francis Louis	*Cambridge*
Henschel, Arthur William	*Sturgeon Bay*
Hess, Edwin Albert	*Council Bluffs, Iowa*
Hestwood, Roy Clinton	*Mount Vernon, Ill.*
Hilbrant, Robert Edward	*Chicago, Ill.*
Himmelstein, Carl Joseph	*Milwaukee*
Hipke, Richard Ronald	*New Holstein*
Hipple, James Bowman	*Pierre, S. Dak.*
Hirsch, Kenneth Irving	*Charles City, Iowa*
Hoffman, Gilbert Bernhardt	*Madison*
Holford, Forrest Revilo	*Cassville*
Holland, Emery Bertram	*Racine*
Hollister, John James	*Chicago, Ill.*
Holmes, Herbert Leonard	*Madison*
Horstmeyer, Harold Frederick	*Madison*
Houghton, Vernon Francis	*Manitowoc*
Hovey, Meredith Leda	*Darlington*
Hurley, Robert James	*Milwaukee*
Jacobsen, Harry Martin	*Rolla, N. Dak.*
Jeffers, George Potter	*Windom, Minn.*
Jelmstad, Ida Josephine	*Madison*
Jenkins, John Lewis	*Batavia, Ill.*
Jensch, Charles Campbell	*Hudson*
Jensen, Merritt Ellsworth	*Sheboygan*
Jesse, Luman Martin	*Clintonville*
Johannes, Walter Bernard	*Stevens Point*
Johnson, Garnett Louise	*Ortonville, Minn.*
Johnson, Verdie Arthur	*Waupun*
Johnson, Wayne James	*Marshfield*
Jones, Arlow Andrew	*St. Paul, Minn.*

Jones, Frederic Edwin	*Bismarck, N. Dak.*
Jones, Orville Leslie	*Wallace, Idaho*
Jones, Vincent Hohn	*Madison*
Jordalen, Ina Lanore	*Minot, N. Dak.*
Joys, Roger Eastman	*Milwaukee*
Kadis, Hyman Hiram	*Milwaukee*
Kadow, Stanley Wenzel	*Manitowoc*
Karn, James Emil	*Madison*
Kearby, Harry Sylvester	*Green Bay*
Kearns, Leo Harold	*Madison*
Keaton, Alonzo Clarence	*Cairo, Ill.*
Keeley, Paul Maurice	*Beloit*
Kessenich, Herman Frank	*Madison*
Kessler, Wesley Dumont	*Stoughton*
Kileen, Earl Francis	*Wautoma*
Kingston, Edward Paul	*Madison*
Kissel, Lester Louis	*Hartford*
Koch, Arthur Louis	*Brillion*
Koch, Gustav Henry	*Davenport, Iowa*
Kohler, John Michael	*Sheboygan*
Koo, Yee-Chun	*Peking, China*
Koo, Yee-Wei	*Peking, China*
Kraemer, Eugene Henry	*Milwaukee*
Krafft, Lee Menta	*Oak Park, Ill.*
Kraus, Paul Lawrence	*Port Washington*
Kraus, Virnea Wilson	*Avoca*
Krause, Florence Beatrice	*Sun Prairie*
Kress, George Frederick	*Green Bay*
Kropf, Harold Alfred	*Stoughton*
Larsen, Clarence John	*Clinton*
Larson, Leon William	*Menominee*
Lauson, Wilfred Jack	*New Holstein*
Lenicheck, Frank Adolph	*Milwaukee*
Lentzner, Lloyd William	*Menomonee Falls*
Le Roy, Emily Margarite	*Niagara*
Lipman, Myer	*Antigo*
Loftus, Gerald William	*Dodgeville*
Lotz, Annette Louise	*Chicago, Ill.*
Lowe, Margaret Stella	*Neillsville*
Lucia, Loy Joseph	*Sugar Bush*
Lundell, Edward Wilmore	*Rockford, Ill.*
Lundell, Raymond	*Rockford, Ill.*
Lynde, Robert Gordon	*Antigo*
MacArthur, Donald	*Antigo*
McCord, Fred Charles	*Nevada, Iowa*
McCormick, Cassius Dean	*Albany, Ind.*
McCutchin, Thomas Otto	*Dodgeville*
McGinley, Francis Joseph	*Crandon*
MacKillican, Donald Keith	*Escanaba, Mich.*
McKinney, Leighton Dennison	*Chicago, Ill.*
Mabie, Rollin Robert	*Fond du Lac*
Mack, Donald Eustis	*Fort Atkinson*
Maclaren, Charles Douglas, Jr.	*St. Paul, Minn.*

Magaro, Nick Albert	*Kenosha*
Maher, Josephine Veronica	*Madison*
Malsin, Arthur Charles	*Merrill*
Manierre, John Foster	*Chicago, Ill.*
Marcus, Bessie Edith	*Viola*
Marsh, Ralph Independence	*Fennimore*
Marshall, Joseph Daniel	*Jacksonville, Fla.*
Mayer, John Charles	*Two Rivers*
Mears, Leroy Merton	*Pepin*
Medley, Luther George	*Fox Lake*
Meier, Richard Carl	*Oshkosh*
Metz, William Joseph	*Madison*
Meyer, Sheldon Eugene	*Madison*
Meyers, Earl William	*Lake Mills*
Mickle, Harold Edward	*Trevor*
Miles, Beth	*Evansville*
Miller, Carl Joseph	*Fennimore*
Mills, Philip Brooks	*Black River Falls*
Moeller, Dorothea Adeline	*Madison*
Morrison, Clarence Donald	*Columbus*
Morrow, Cecil Alfred	*Kenosha*
Morton, Howard Colby	*Wauwatosa*
Moss, Curtis Frank	*Kenosha*
Mueller, Margaret Anna	*Madison*
Munkwitz, George Albert	*Milwaukee*
Murphy, Norris Goodhue	*Green Bay*
Muzzy, LaVern William	*Lannon*
Nash, Casper Marshall	*Madison*
Neilson, Stanley Walter	*Milwaukee*
Nelson, Arthur Edward	*Marinette*
Nemeroff, Victor Jack	*Chicago, Ill.*
Neufeld, Arnold Elmer	*Antigo*
Newell, Joseph Nesbit	*Sioux Falls, S. Dak.*
Neyman, Edgar	*Milwaukee*
Nicklas, Henry Engelbert	*Durand*
Nieman, Norman Gilbert	*Hamburg*
Nissley, Paul Reese	*Chicago, Ill.*
Norgord, Andy	*Madison*
Nyhagen, Robert Wallis	*Manitowoc*
Odee, Harold	*Beloit*
O'Donnell, Herbert Victor	*Antigo*
O'Malley, Charles Rodney	*Waunakee*
O'Neill, Josephine Charlotte	*Shawano*
Orton, Paulona	*Butte, Mont.*
Oscar, Elliott Max	*Madison*
Owen, Mallard Eugene	*Milwaukee*
Pauls, Leslie S.	*Washington, Iowa*
Pear, Henry Robert	*Baltimore, Md.*
Peck, Hollis Charles	*Elkhorn*
Pennell, Charles Dan	*Van Wert, Ohio*
Petersen, Howard Frank	*Clinton, Iowa*
Peterson, Robert Andrew	*Commonwealth*
Peterson, Robert Lawrence	*Waupaca*

Pfaelzer, Malcolm David	*Chicago, Ill.*
Pflueger, Francis William	*Manitowoc*
Pitzner, Paul August Fred	*Johnson Creek*
Porter, Robert Taylor	*Chicago, Ill.*
Posepny, Peter Matthew	*Two Rivers*
Potter, Franklin Carl	*Baraboo*
Prange, Helen Bodenstein	*Sheboygan*
Preston, Charles Francis	*Chippewa Falls*
Pschorr, Edmund Joseph	*Madison*
Radke, Frederick William	*Owen*
Rainsberger, Robert Ferguson	*E. Palestine, Ohio*
Rathbun, Mildred Amelia	*Madison*
Rentschler, George Frederick	*Madison*
Richardson, Howard Elmer	*Spring Green*
Riley, John Morris	*Madison*
Robinovitz, Albert Alfred	*Omaha, Nebr.*
Rose, Lulu	*Prentice*
Rosenzweig, Walter Jack	*Mellen*
Rosien, Elenore Isabel	*Madison*
Ross, Lester Ward	*Madison*
Rowell, Nat Joel	*Joliet, Ill.*
Ruggles, Harry Kenneth	*Chicago, Ill.*
Ruhmer, Vilas Ivan	*Park Falls*
Rundle, James Arthur	*Baraboo*
Ruppenthal, Everett Jacob	*Brillion*
Ryan, Sadie Julia	*Prairie du Sac*
Salentine, Frederic G. H.	*Milwaukee*
Sander, Willard Gustav	*Madison*
Sandsmark, Morau	*Coon Valley*
Saunders, Burton William	*Chicago, Ill.*
Saunders, Richard Edmond	*Washington, D. C.*
Schaefer, Susie Genevelve	*Baraboo*
Schatz, Harold Alfred	*Waukesha*
Schele, Edward Thomas	*Fort Wayne, Ind.*
Schils, Julius Raymond	*Sheboygan*
Schloegel, Henry Anthony	*Milwaukee*
Schubert, Clarence John	*Menasha*
Schuh, Nores Bazinet	*Cuba City*
Schulz, Robert Leland	*Plymouth*
Schwartz, Harry	*Manitowoc*
Scull, Walter Erwin	*Lake Geneva*
Seeman, William R. F.	*Janesville*
Sell, Harold Fred	*Adrian, Minn.*
Seyler, Walter Samuel	*Baraboo*
Shannon, Wallace Clark	*Portage*
Shaver, Warren H.	*Spring Prairie*
Shaw, Ruth Ella	*Waunakee*
Sheldon, William Horace	*Madison*
Shimonek, Stephen Julius	*Laurium, Mich.*
Simpson, William Ethelbert	*Wellsburg, W. Va.*
Skroch, Roman Sylvester	*Whitehall*
Smith, Henry Charles, Jr.	*Miles City, Mont.*
Smith, Hubert Clinton	*Madison*

Sonday, Frederic John	*Sparta*
Sorensen, Edwin James	*Milwaukee*
Spoon, Kenneth Solomon	*Janesville*
Sprester, Henry John	*Black River Falls*
Staffeld, Erwin William	*Wisconsin Rapids*
Stair, Henry Bowen	*Brodhead*
Stark, Forrest Francis	*Mukwonago*
Stead, Kenneth Rial	*Bainbridge, N. Y.*
Stegeman, Frank Phister	*Fort Thomas, Ky.*
Stephenson, Clarence James	*Madison*
Sternberg, Sam Elmer	*Chicago, Ill.*
Stevens, Charles B., Jr.	*El Paso, Texas*
Stevens, Donald White	*Cassville*
Stolte, John F.	*Waterloo, Iowa*
Stone, Harold LeRoy	*Pardeeville*
Stone, Ida Virginia	*Milwaukee*
Strong, Stuart Eugene	*Madison*
Stuart, Frank Clarence	*Batesville, Ark.*
Sullivan, Charlotte	*Marshfield*
Sundquist, Ralph Waldo	*Bayfield*
Sutherland, Edmond Robbins	*Madison*
Svec, Marie Melvina	*Cedar Rapids, Iowa*
Swanke, Roy John	*Tigerton*
Sweeney, Lawrence Martin	*Chicago, Ill.*
Sylvester, Lenore Miriam	*Madison*
Symes, John Harold	*Blooming Prairie, Minn.*
Taggart, Frederick Henry	*Lake Geneva*
Tarrant, Burr, Jr.,	*Durand*
Teasdale, Howard Henry	*Sparta*
Teetshorn, Evelyn Mary	*Whitewater*
Thomas, Donald Campbell	*Fort Wayne, Ind.*
Thompson, Julian Hugo	*Coon Valley*
Thornburgh, Bernard Mac	*Okmulgee, Okla.*
Timm, Arthur Edward	*Milwaukee*
Toll, Alfred Otto	*Waupun*
Tollack, Hugh Livingstone	*Black River Falls*
Tollack, Layton Eugene	*Black River Falls*
Treskow, Frank G.	*Eldora, Iowa*
Tuhtar, Eugene William	*Milwaukee*
Tuttles, Neil Francis	*Sioux City, Iowa*
Valle, Victor Edward	*Kokomo, Ind.*
Vallely, Lloyd Michael	*Ashland*
Walker, Clarence Sidney	*Columbus*
Walker, Llewellyn James	*Hancock*
Ward, William Howard	*So. Milwaukee*
Washbush, Arnold Anthony	*Fond du Lac*
Watkins, Stanley Boley	*Barneveld*
Watts, Floyd Corliss	*Grimes, Iowa*
Watts, John Robert	*Louisville, Ky.*
Wegwart, Herman Edward	*Burlington*
Weirich, Monroe William	*Baraboo*
Wenniger, Elmer John	*Algoma*
Wentorf, Elmer John	*West Bend*

Werner, Leo Florian	*Hortonville*	
Wessely, Loddie Alois	*Kewaunee*	
Wheller, Earl Eugene	*Sibley, Iowa*	
White, Alden Wesley	*Rewey*	
Whitten, Thomas Cooper	*New Castle, Pa.*	
Wichern, Harold John	*Evansville*	
Wilbert, Leonard John, Jr.	*Ingram*	
Willey, Cecil Reed	*Algoma, Iowa*	
Wilson, Bartlett Kniffin	*Muncie, Ind.*	
Witte, Erhart L.	*Granton*	
Wolberg, Alvern Ernest	*Iola*	
Wolff, Edwin Fred	*Milwaukee*	
Wright, Edgar Brayton	*Monticello*	
Wright, Proctor Thomas	*Webster Groves, Mo.*	
York, Irving Washington	*Portage*	
Youmans, Addison Beckwith	*Winona, Minn.*	
Zilch, Carl Julius	*Hartford*	
Zodtner, Harlan Henry	*Portage*	—407

Course in Chemistry

Burnham, Harry Arnold	*Barron*	
Buxbaum, Edwin Clarence	*Milwaukee*	
Dittmar, Harry Robert	*Fond du Lac*	
Escobar, William	*Medellin, Colombia, S. A.*	
Fries, Horace Snyder	*Richland Center*	
Grimm, Walter Joseph	*Madison*	
Groskopf, Edwin Otto	*Baraboo*	
Hindes, Lawrence William	*Ableman*	
Holzbog, John Henry	*Wauwatosa*	
Ives, Mary Margaret	*Oak Park, Ill.*	
Krueger, Walter Charles	*Oakfield*	
Pesch, Marie Salm	*Madison*	
Snell, Hampton Kent	*Kansas City, Mo.*	
Thomas, Carolyn Louise	*Louisville, Ky.*	
Weinreich, Lawrence Earnst	*Chicago*	—15

Course in Journalism

Abbott, Donald Holden	*Grand Rapids, Mich.*	
Anderson, Donald Wells	*Beloit*	
Baldauf, Helen Joyce	*Milwaukee*	
Barry, Lois Virginia	*Milwaukee*	
Barsantee, Harry Pratt	*Madison*	
Bayer, Gladys Marie	*Kenosha*	
Bell, Donald Leseing	*Milwaukee*	
Bellman, Frank William	*Fort Atkinson*	
Berkoff, Louis Solomon	*Milwaukee*	
Billings, Curtis	*Madison*	
Bond, Phyllis Mary	*Chicago, Ill.*	
Boyer, Rella Jeannette	*Duluth, Minn.*	
Busenbark, Alfreda Margaret	*Chicago, Ill.*	
Campbell, Gwendolyn Gail	*Ortonville, Minn.*	
Canright, Eldon Jerome	*Milwaukee*	
Cheney, Clayton	*Milwaukee*	

Cummings, Alice Elizabeth	*Milwaukee*
Dalrymple, Martha Dorothy	*Chicago, Ill.*
Davidson, Gladys Mai	*Fort Smith, Ark.*
Dembufsky, Howard Franklin	*Goshen, Ind.*
Dunlap, Wes Wilson	*Escondido, Calif.*
Dyckhoff, Francis Bernard	*Fond du Lac*
Eastman, Bertha Ruth	*South Bend, Ind.*
Eichsteadt, Leslie William	*Port Edwards*
Evans, Elizabeth	*Chattanooga, Tenn.*
Fish, Mildred Elizabeth	*Milwaukee*
Fowler, Esther Lyda	*Minong*
Fulton, Ellis Giles	*Toledo, Ohio*
Gerberich, Gladys Marguerite	*Aurora, Ill.*
Graves, Jessie Mann	*South Bend, Ind.*
Griffin, Harold Michael	*Baraboo*
Griffith, Esther Rhoda	*Madison*
Griffiths, Brynly Alwyn	*Madison*
Hager, John Allen	*Reedsburg*
Hahn, Martha Vithers	*Ft. Wayne, Ind.*
Hamlin, Kenneth Aubrey	*Phoenix, Ariz.*
Harms, Kathleen Charlotte	*Salt Lake City, Utah*
Hazelrigg, Frances Hartwell	*Mt. Sterling, Ky.*
Hogan, Alica Theresa	*Arena*
Hoye, Hobart Thomas	*Kenosha*
Hussong, Mary Elizabeth	*Paris, Ill.*
Kartack, Theodora Rose	*Baraboo*
Kelso, Ruth Lucille	*Oak Park, Ill.*
Kimberly, Alice Helen	*Omaha, Nebr.*
Lansworth, Vivian Carolyn	*Ogema*
Leicht, Henriette Louise	*Winona, Minn.*
Lepper, Lucile	*Menomonee Falls*
Lewis, Gorden DeWitt	*Madison*
Logan, John, Jr.	*Chicago, Ill.*
Lowry, William Leonard	*Leola, S. Dak.*
Lyon-Campbell, Ruth Marian	*Ramsay, Mich.*
Mason, Elizabeth Anne	*Madison*
Menke, Albert William	*Glendive, Mont.*
Meyer, Harold William	*Reedsburg*
Moore, Cony	*Milwaukee*
Moran, Dora Margaret	*Avoca*
Moses, Clifford Axtell	*Delavan*
Mrkvicka, Lewis Stephen	*Racine*
Ninnan, Max Ferber	*Reedsburg*
Norman, Lina Irene Elvira	*Wauwatosa*
Page, Marius Curt	*Baraboo*
Pepper, Adline Elizabeth	*Madison*
Powell, Montrose Avalon	*Brocton, N. Y.*
Rathbun, Dorothy	*Chicago, Ill.*
Ritter, Elvira	*Milwaukee*
Robertson, Marion Louise	*East Aurora, N. Y.*
Rorison, William Alva	*Davenport, Iowa*
Runkel, Myra Catherine	*Port Washington*
Schumacher, Helen Norene	*Ann Arbor, Mich.*

Semelroth, Martha Reynolds	*Racine*	
Smith, Gordon Edward	*Madison*	
Sobey, Edward John	*Dodgeville*	
Stamm, Margaret Victoria	*Chicago, Ill.*	
Stone, Helen	*Deer Lodge, Mont.*	
Tederstrom, Albert Harlow	*Ironwood, Mich.*	
Torpe, Vesta Margaret	*Chicago, Ill.*	
Vestry, Julia Hope	*Douglas, Ariz.*	
Walter, Edna Dorothea	*Madison*	
Weimer, John Francis	*Milwaukee*	
Wilmer, Alex	*Honey Creek*	
Wilson, Elizabeth Irene	*Fort Atkinson*	
Wolf, Katie Robertson	*Madison*	
Wynne, Cornelia Copeland	*Madison*	—83

General Course

Buehler, Donald E.	*Baraboo*	
Henkel, John Robert	*Chicago, Ill.*	
Hilberts, Bert Martin	*Jefferson*	
Jorgenson, John Rultz	*Racine*	
Kindschi, Rosanna Lenore	*Madison*	
Larson, John William	*Bismarck, N. Dak.*	
Lindsay, Gordon Rowley	*Milwaukee*	
Lowe, James Franklin	*Oconomowoc*	
Powers, Leo Munson	*Janesville*	
Pschorr, William John	*Madison*	
Rood, James Leslie	*Sun Prairie*	
Rosa, Ronald Chamberlin	*Madison*	
Sherwood, Marguerite Smith	*Chicago, Ill.*	
Sorenson, Perc	*Milwaukee*	
Stegeman, Albert Vinton	*Fort Thomas, Ky.*	—15

Course in Humanities

Bingenheimer, Gertrude Harvey	*Milwaukee*	
Jackson, Harriet Josephine	*Madison*	
Sellery, Beatrice	*Madison*	—3

Adult Special Students

Alexander, John, Jr.	*Aurora, Ill.*	Sophomore
Berg, George Oscar	*Madison*	Sophomore
Boardman, Harry Allen	*Milwaukee*	Freshman
Bolstad, Selma Clara	*Milwaukee*	Freshman
Brown, Charles Oscar	*Eau Claire*	Sophomore
Dawson, James Thomas	*Beloit*	Junior
Edwards, George	*Madison*	Freshman
Ellis, Albert Eugene	*Des Moines, Iowa*	Freshman
Ewertz, Henry	*Milwaukee*	Sophomore
Fay, Hugh Commerford	*Madison*	Freshman
Fleishman, Margaret Gertrude	*St. Louis, Mo.*	Freshman
Gerholz, Robert Paul	*Merrill*	Junior
Graham, Neill Smith	*San Antonio, Texas*	Freshman
Grosse, Catherine Priscilla A.	*Madison*	Freshman

Guillemin, Victor, Jr.	*Milwaukee*	Junior
Haake, Alma Agnes	*Madison*	Freshman
Hamilton, Henry Huntington	*Two Rivers*	Freshman
Hauptman, Evelyn	*Newark, N. J.*	Sophomore
Helm, Lucille Marie	*Madison*	Freshman
Hull, Bertha Intzi	*Madison*	Freshman
Jamba, Ann	*Madison*	Freshman
Kailin, Dorothy	*Madison*	Sophomore
Kao, Dorothy Tze se	*Nantung, China*	Sophomore
Katel, Elmer John	*Kewaunee*	Freshman
Kennedy, Ethel Margaret	*Racine*	Freshman
Knudson, Clarence	*Kenosha*	Sophomore
Lathers, Frank Riley se	*Beloit*	Freshman
Leiser, Clara Margaret	*Milwaukee*	Sophomore
Lifschitz, Bertha	*Brooklyn, N. Y.*	Freshman
Long, Frances Allathea	*Madison*	Freshman
Nielsen, Maurice Louis	*Florence*	Freshman
Nordvi, Victoria Joyce se	*Ripon*	Freshman
Olmstedt, Robert Henry	*Omaha, Nebr.*	Junior
Owens, Mildred Dorothy	*Utica, N. Y.*	Sophomore
Peterson, Ruth Manila se	*Racine*	Freshman
Phillips, Clement Kingsley	*Madison*	Freshman
Price, Margaret	*New Bedford, Mass.*	Freshman
Rasmussen, Carrie	*Aurora, Ill.*	Sophomore
Reeve, Richard Dodge	*Waunakee*	Freshman
Rhodes, Helen Martyn	*Chicago, Ill.*	Freshman
Rodner, Alfred	*Madison*	Junior
Röhrstaff, Ole	*Cambridge*	Freshman
Romera, Sarita Dorothy	*Milwaukee*	Freshman
Sage, Catherine Lenore	*Madison*	Freshman
Sannes, Ingeborg Marie se	*Madison*	Junior
Schmidt, George Arthur	*Madison*	Freshman
Schmidt, Merle Lucrece	*Waukesha*	Freshman
Schneider, Elmer Alvin	*Appleton*	Freshman
Seeley, James Guy	*Plainville, Ill.*	Freshman
Shaber, Fannie	*Nashua, N. H.*	Sophomore
Shier, Harold Bernard	*Pulaski*	Sophomore
Smith, Harriet Mary	*Kansas City, Mo.*	Sophomore
Splavec, Erna	*Milwaukee*	Freshman
Steddom, Abijah Henry	*Oklahoma City, Okla.*	Freshman
Stein, Mary	*Madison*	Freshman
Stewart, Jean	*West Allis*	Freshman
Troemel, Ernestine Anna	*Madison*	Freshman
Tuddy, Marie Eleanor	*Chicago, Ill.*	Freshman
Veale, William Radnor	*Milwaukee*	Freshman
Wakeman, Hattie Josephine	*Madison*	Senior
Weber, Roland Frederick	*New York, N. Y.*	Freshman

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Course in Commerce

Anderson, Arthur Lloyd	*Eau Claire*	Sophomore
Branks, Lloyd Henry	*Janesville*	Sophomore
Breazeale, Albert Farleigh	*Meridian, Miss.*	Freshman

Fitzsimmons, Charles Harley	*Duluth, Minn.*	Sophomore
Gerlach, Arthur John	*Milwaukee*	Freshman
Hawley, Clifford Stanley	*Madison*	Sophomore
Houkem, Omer	*Blair*	Junior
Kalbus, Alvin Walter	*Madison*	Sophomore
Kerth, Daniel Anthony	*Racine*	Freshman
Linsangan, Pedro T.	*Gapan, N. E., P. I.*	Freshman
Looze, Archie Joseph	*Green Bay*	Freshman
McDonald, Lawrence	*Whitewater*	Junior
Mather, Albert Gray	*Duluth, Minn.*	Freshman
Schostack, Abraham William	*Milwaukee*	Junior
Snead, Sam	*Delafield*	Junior
Suneson, Andrew Meyer	*Ogema*	Freshman
		—16

Course in Chemistry

Hua, Shih Ting	*Kiangfu, China*	Freshman
		—1

Course in Journalism

Brockhausen, Herbert Henry	*Milwaukee*	Junior
Hansen, Carl Robert	*Chicago, Ill.*	Freshman
Kataflasz, Leon Louis	*Racine*	Freshman
		—3

Four Year Course in Pharmacy

Anderson, Ruby Ethel	*Wauwatosa*	Junior
Andrews, William Worley	*Highmore, S. Dak.*	Freshman
Beckerman, Russell Meyer	*Milwaukee*	Sophomore
Blank, Paula	*Milwaukee*	Junior
Brattrud, Helen Caryl	*Madison*	Freshman
Clark, Donald Henry	*Madison*	Freshman
Clark, Ralph William	*Madison*	Senior
Coyle, William Maurice	*Wittenberg*	Freshman
Delfosse, Joseph Thompson, Jr.	*Chicago, Ill.*	Sophomore
Edwards, LeRoy Delos	*Lancaster*	Junior
Gage, Earle Edgar	*Whitehall*	Junior
Geiger, George Leonard	*Monroe*	Sophomore
Groffman, Harlan George	*Manitowoc*	Senior
Heidbreder, Ralph Harold	*Quincy, Ill.*	Senior
Hewitt, Harold George	*Milwaukee*	Junior
Ives, Donald Eddy	*Madison*	Freshman
Jenkins, Glenn Llewellyn	*Sparta*	Senior
Kellman, Norris John	*Galesville*	Junior
Krause, Arthur John	*Oshkosh*	Junior
Kuenzl, Ernest Gottfried	*Colgate*	Senior
Kuester, Hugo Leslie	*Shawano*	Sophomore
Lake, Harry Frederick	*Viroqua*	Freshman
Lounsbury, Harry Edward	*Richland Center*	Junior
Maass, Arnold Herman	*Templeton*	Freshman
Meyer, Gladys Fay	*Prairie du Sac*	Freshman

Mickels, Hugh Conrad	*Chilton*	Junior
Murphy, Howard Jay	*Delavan*	Freshman
Pokorny, Earl Joseph	*Racine*	Senior
Pritchard, Forest Chester	*Prophetstown, Ill.*	Freshman
Rang, Karl Henry	*Oshkosh*	Junior
Rowland, Charles	*Dixon, Ill.*	Freshman
Schulkin, Joseph	*Milwaukee*	Junior
*Schwarz, Alexander John	*Chilton*	Senior
Swoboda, Agnes Regina	*Antigo*	Freshman
Taylor, Palmer William	*Stevens Point*	Junior
Tilford, Edgar Lockhart	*Martinsville, Ind.*	Sophomore
Winkelblech, Leda Luella	*Millheim, Pa.*	Senior
Zimmerman, Florence Susanna	*Peoria, Ill.*	Freshman

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Two Year Course in Pharmacy

Ackerman, Karl Henry	*Plymouth*	Second Year
Barnard, Karl Simeon	*Brillion*	Second Year
Beck, Seigfred Ernest	*Wabeno*	First Year
Carey, Ray John	*Madison*	First Year
Chaplin, Morris William	*Hartford*	First Year
Charmley, Charles Clayton	*Madison*	Second Year
Dunbar, Leo Patrick	*Cedar Falls, Iowa*	First Year
Engels, Fleurounge Elizabeth	*Madison*	Second Year
Erickson, Howard Lyle	*Madison*	First Year
Goetsch, Raymond	*Watertown*	Second Year
Graef, Arthur Herman William	*Plymouth*	First Year
Hackendahl, Arthur Herman	*Milwaukee*	First Year
Hastings, Albert Clarke	*Marshfield*	Second Year
Heintz, William Douglas	*Rice Lake*	First Year
Heintzelman, Marshall Louise	*Kirkwood, Mo.*	Second Year
Herr, Gilbert Joseph	*Madison*	First Year
Hillenbrand, Oscar Joseph	*Sun Prairie*	First Year
Hougen, Horace Percival	*Durand*	Second Year
Howard, Claude Randolph	*Prentice*	Second Year
Husman, Joseph Herman	*Gillett*	Freshman
Kellman, Forrest Thompson	*Galesville*	Second Year
Korbel, Ethel Kabakoff	*Madison*	First Year
Kravik, Lloyd Rudolph	*Cambridge*	First Year
Lange, Edward Walter	*Weyauwega*	First Year
Lee, Jacob Palmer	*Mondovi*	First Year
McCranner, Ivan Leland	*Madison*	Second Year
Marsh, Hector Charles	*Mountain*	First Year
Mercer, William Miller	*Delavan*	Second Year
Nolan, Grant John	*Woodstock, Ill.*	First Year
Olk, Merritt Frances	*Antigo*	First Year
Pies, Herbert William	*Sawyer*	Second Year
Poole, Jesse Myrle	*Shiocton*	Second Year
Price, Reginald John	*Prescott*	Second Year
Roberts, Glenn Ryle	*West Salem*	First Year

*Hollister fellow in Pharmacy, second semester, 1921-22.

Rocca, John Peter	*Madison*	First Year
Rogatz, Maurice	*Niagara*	Second Year
Schluessel, Elmer Ellsworth	*Algoma*	First Year
Schreier, Hugo Peter	*Cashton*	First Year
Schwake, Norbert Edward	*Two Rivers*	Second Year
Schwartz, Sam	*Madison*	First Year
Seitz, Albert John	*Cashton*	First Year
Shearer, Arlie Everett	*Marengo, Ill.*	First Year
Smith, Eno Andover	*Marion*	First Year
Stedman, Helen Ruth	*Waupaca*	Second Year
Strommen, Jorgen Arthur	*Cambridge*	First Year
Suino, Lorenz E.	*Iron Mountain, Mich.*	Second Year
Tanner, Wyverne Grant	*Turtle Lake*	First Year
Trachte, Leonard Nathaniel	*Madison*	First Year
Van Konynenburg, Bertram	*St. Croix Falls*	Second Year
Voigt, Edwin John	*Appleton*	Second Year
Weiss, Richard Glenn	*Madison*	Second Year
Welterman, Earl Carl	*Sturgeon Bay*	Second Year

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Adult Special—Four Year Course

Dooley, Milton Lawrence	*Milwaukee*	Junior
Phillips, Arthur G.	*Chicago, Ill.*	Sophomore

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Adult Special—Two Year Course

Campbell, Cleo C.	*Glencoe, Ill.*	First Year
Edwards, James Blaine	*Hazel Green*	First Year
Gallagher, Don William	*Rockford, Ill.*	First Year
Helstrom, Oscar Herbert	*Madison*	First Year

—4

SCHOOL OF MUSIC

Seniors

Bennett, Ruth Marian	*Janesville*	
Borge, Aagot Marion Katharine	*Madison*	
Britts, Ruby Evans se	*Duluth, Minn.*	
Chandler, Martha Kuehmsted se	*Sheboygan*	
Dickinson, Helen Rozella se	*Edgerton*	
Fritz, Fidele Elizabeth se	*Madison*	
Hayden, Reba Claribel se	*Madison*	
Hull, Marion Mackey	*Milton Junction*	
Kilpatrick, Mary Lula	*Belmont*	
Kohn, Florence Eleanor	*Madison*	
Lampert, Florence May	*Lena, Ill.*	
Levi, Dorothea Everest se	*Madison*	
Perham, Beatrice Minerva	*Sparta*	
Roberts, Helen Haynes se	*Winona, Minn.*	
Sanders, Paul Philip se	*Madison*	—15

Juniors

Atherton, Alice Fay se	*Albany*	
Belscamper, Charlotte Marion	*St. Charles, Minn.*	
Breitenbach, Janet Mary	*Madison*	
Collier, Winifred Mary	*Oshkosh*	
Eastman, Vera Alice	*Grafton, Ill.*	
Estvad, Rignor Christensen se	*Madison*	
Gibbs, Merle Irene	*Clinton, Iowa*	
Holton, Beatrice se	*Edgerton*	
Jones, Grace Mildred	*Yonkers, N. Y.*	
Landon, Frances Helen se	*Clintonville*	
Mitchel, Mira Louise se	*Madison*	
Moore, Margaret Page se	*Fond du Lac*	
Mosel, Marion Letia se	*Sun Prairie*	
Olds, Deborah Fay se	*Madison*	
Osborn, Donald Burt se	*Wyocena*	
Peterson, Anna Marie	*Blair*	
Showers, Mabel Caroline	*Madison*	
Wilson, Irma Lucile	*New Glarus*	—18

Sophomores

Bareis, Naomi Marie	*Madison*	
Bassett, Ariel Janette se	*Wahpeton, N. Dak.*	
Duncan, Erma Leona	*Madison*	
Garness, Gladys Annetta	*Eau Claire*	
Johnson, Temperance Drake	*Madison*	
Lewis, Mary Carmalita	*Pocantico Hill, N. Y.*	
Olsen, Eyvind Thorheim	*Elkhorn*	—7

Freshmen

Ballerud, Muriel Theobelle	*Eau Claire*	
Beckwith, Chauncey se	*Madison*	
Blum, Nona Dorothy	*Monticello*	
Erbes, Florence Catherine	*Harlem, Mont.*	
Hertzberg, Clara Cole	*Sheboygan Falls*	
Kerr, Marie Patricia	*Minneapolis, Minn.*	
Kring, Evelyn Verle	*Fairbury, Ill.*	
Madden, Louise Eunice	*Menominee, Mich.*	
O'Neill, Jennie Maureen se	*Bridgeport*	
Pantzer, Margaret Elizabeth	*Sheboygan*	
Reznor, Jessie Virginia	*Mercer, Pa.*	
Rider, Alice Phelps	*Markesan*	
Rodolf, Mildred Josephine	*Madison*	
Rooney, Rosemary Ursula	*Dubuque, Iowa*	
Schneider, Martha	*Dubuque, Iowa*	
Sheerer, Sara Mildred	*Hammond, Ind.*	
Vivian, Irene Ida	*Madison*	
Vradenburg, Vera Josephine	*Madison*	
Wolcott, Margaret Frances	*Hollywood, Cal.*	—19

Supervisors' Course

Second Year

Beebe, Ruth	*Sparta*	
Dieruf, Gladys Irene	*Madison*	
Downey, Mary Antoninus se	*Portage*	
Griem, Lucy Ann se	*New Holstein*	
Hedstrom, Hazel Marie se	*Oak Park, Ill.*	
Knaup, Naomi Astha se	*Beaver Dam*	
Lemmer, Ethel Marie	*Spooner*	
Noble, Lola Elizabeth se	*Indianapolis, Ind.*	
Pelzer, Agnes Theresa se	*Cashton*	
Ramstad, Victoria Anne	*Superior*	
Sherdahl, Helen Carol	*Montevideo, Minn.*	
Stein, Mildred Elizabeth se	*Harbor Springs, Mich.*	
Stockdale, Vesta Alice se	*Belmont*	—13

Freshmen

Anderson, Frances Lucille se	*Viroqua*	
Baechler, Clarence Paul se	*Fountain City*	
Beckwith, Ellen	*Madison*	
Carey, Lulu Helen se	*Argyle*	
Connell, Lottie Mae se	*Menomonee Falls*	
Daly, Lucile	*Oshkosh*	
Densmoor, Natalie se	*Markesan*	
Diefenthaler, Della Deen	*West Salem*	
Duvie, Mildred Gladys se	*Tomahawk*	
Elston, Florence Marjorie se	*Muscoda*	
Erbe, Gertrude Miriam se	*Green Bay*	
Hitchner, Julia Isabelle se	*Freeport, Ill.*	
Kincannon, Zelma Marian se	*Blue River*	
Lewandowski, Thyra Susan se	*Hancock*	
Mack, Dorothy Elizabeth se	*Fort Atkinson*	
Morgan, Karl Sherwood se	*Elroy*	
Nessler, Ilsa Emmaline	*Belmont*	
O'Boyle, Florence Milroy se	*Kaukauna*	
Olson, Lillian Marie	*Madison*	
Peterson, Mary White B.A.	*Madison*	
Rowe, Mildred Odella se	*Scandinavia*	
Sneathen, Margaret Jeanette se	*Baraboo*	
Wesenberg, Norma Elsie se	*Middleton*	
Yates, Margaret Devine	*Madison*	—24

Adult Specials

Four Year Course

L'Hommedieu, Dorothy Kellogg se	*Madison*	Freshman
Jaquish, John Henry se	*Madison*	Junior
		—2

Supervisors' Course

Buseth, Harold Rudolph se	*Deerfield*	Freshman
Koschin, Milly Elizabeth se	*Racine*	Sophomore
Longaker, Duane Sill se	*East Auroua, N. Y.*	Freshman
Stark, Anna Lylia	*Madison*	Sophomore
		—4

Unclassified

Carpenter, Russell Hand, B.A.	*Madison*
Coe, Orpha Mazie	*Barron*
Cooper, Lucille Campbell	*Madison*
Dixon, Jennie Grace	*La Crosse*
Doggett, Doris Damon	*Madison*
Dyer, Leara Zelda	*Jacksonville, Ill.*
Gordon, Edna Stillwell	*Madison*
James, Mary Ventura	*Madison*
Kay, Arthur	*Madison*
Kimball, Norman C.	*Madison*
Leland, Ruth Pointer	*Madison*
Lerdahl, Marie Josephine	*Morrisonville*
Livick, Grace	*Edgerton*
McDaniel, Annabelle	*Madison*
McKitrick, M. Marie	*Madison*
Mowry, Jean J.	*Madison*
Newburn, Iva Florence	*Urbana, Ill.*
Puehler, Lucy Mary	*Madison*
Puls, Irene	*Madison*
Ridings, Minnie Sue	*Madison*
Ryan, Marion E.	*Wausau*
Shouldis, Emilie Louise	*Burlington*
Sister Mary Cordula New	*Madison*
Soldan, Lillian Caroline	*Madison*
Wolf, Frederick E.	*Madison* —25

MEDICAL SCHOOL

Second Year

Bianco, Tony Joseph ls	*Spooner*
Blatter, Erwin Walter ls	*La Crosse*
Borman, Milton Carter, ls	*Oshkosh*
Bowles, John Herschel ls	*Sheldon, Ill.*
Brown, Clarence Baxter ls	*Highland*
Brown, Thomas Kenneth, B.S. g	*Waupun*
Bussey, Frederick Newton ls	*Chicago, Ill.*
Calvert, Charlotte Joslin, B.A. g	*Madison*
Campbell, Arch Phelps ls	*East Ellsworth*
Campbell, Everette Lowell ls	*Madison*
Clark, Marion Eugene ls	*Indianapolis, Ind.*
Conrad, Agnes, M.S. g	*Madison*
Connell, Laura May ls	*Fond du Lac*

Coon, Gaylord Palmer, ls	*Madison*
Culver, Lucian, B.A g	*Eau Claire*
Doyle, Chauncey James ls	*Milwaukee*
Edwards, Wilmer Charles, B.A. g	*Marion*
Ellis, Ivan George ls	*Milwaukee*
Emerson, Adolph Herman ls	*La Crosse*
Exley, Erwin William ls	*Menasha*
Fehland, Harold Roland ls	*Merrill*
Forsbeck, Filip Carl ls	*Milwaukee*
Foshion, Herbert Victor ls	*Brussels*
Gasser, John Jacob ls	*Chicago, Ill.*
Gasul, Benjamin Morris ls	*Kenosha*
Gatterdam, Paul Christoffers ls	*La Crosse*
Goodstone, Samuel Bernard, B.A. g	*Pittsburgh, Pa.*
Gregory, Laurence William ls	*Valders*
Gyland, Stephen P., B.A. g	*Barron*
Hammond, Reginald Wilmot ls	*Manitowoc*
Harman, Hubert Fish ls	*Sparta*
Hartlett, Elvin Mann ls	*Germantown, Pa.*
Harville, Clifford Henry ls	*Eau Claire*
Heidner, Frederick Carl ls	*West Bend*
Hess, James Sam ls	*Mauston*
Holford, Frances Elizabeth ls	*Cassville*
Hudson, Robert James ls	*Madison*
Juster, Eugene Meyer ls	*Milwaukee*
Kastlin, George Jacob ls	*La Crosse*
Kesten, Homer Davies, M.S. g	*Madison*
Koehler, Alfred Edward, Ph.D. g	*Manitowoc*
Kreutz, George Charles, B.A. g	*La Crosse*
Linden, Gabriel Eric ls	*Madison*
McGary, Lester ls	*Norwalk*
McMurry, Ora Richard ls	*Evansville*
Madison, Frederick Wm. B.A. g	*Lodi*
Madsen, Mars Laurice ls	*Viborg, S. Dak.*
Maher, Beatrice ls	*Kalamazoo, Mich.*
Mar, Severs Francisco ls	*Tampico, Mexico*
Meinert, Albert Erwin, B.A. g	*La Crosse*
Moon, John Frank ls	*Rosendale*
Mueller, Gustav Gottlieb ls	*Princeton*
Ohlson, Guy Edward ls	*La Crosse*
O'Hora, James Timothy ls	*Mazomanie*
Osgood, Carroll Wilcox ls	*Brodhead*
Peterson, Edward Nohl ls	*Florence*
Peterson, Lyndle Wilson ls	*Shawano*
Pfefferkorn, Ethan Benj. B.A. g	*Elk Mound*
Phillips, Lyle Graham ls	*Madison*
Pope, Mary Howe, M.A. g	*Evanston, Ill.*
Rygh, Edgar Andrew, B.A. g	*Madison*
Schmitz, Henry Lenzen, B.S. g	*Chicago, Ill.*
Schneller, Edwin Jacob, B.S. g	*Prairie du Sac*
Schweiger, Leo Joseph ls	*Cashton*
Smedal, Erling Arnold ls	*McFarland*
Sorensen, Thorval Levi ls	*Racine*

Stearns, Dana Preston ls	*Mason City, Iowa*	
Stucki, John Calvin ls	*Black River Falls*	
Sutliff, Wheelan Dwight, B.A. g	*Rhinelander*	
Talbot, Harry George ls	*Madison*	
Tasche, Leslie William, B.A. g	*Sheboygan*	
Toepfer, Raymond August ls	*Oregon*	
Vetten, Cornelius Nicholas ls	*Sheboygan*	
Wall, Mark Henry ls	*Eau Claire*	
Woodmansee, Clarence H., B.A. g	*Providence, R. I.*	—75

First Year

Baker, Rowe George ls	*Tomahawk*
Baratz, Jacob Joseph ls	*Madison*
Bell, Douglas Batton ls	*Tomah*
Benell, Otto Earl, B.S. g	*Fort Collins, Colo.*
Blumer, Martha ls	*Milwaukee*
Boies, Lawrence Randall ls	*Minneapolis, Minn.*
Bond, Russell Conwell ls	*Wheeling, W. Va.*
Breister, Benjamin Walter ls	*Fond du Lac*
Brown, Robert Whitcomb ls	*Highland*
Brundige, Lyla Ruth ls	*Geneva, Ill.*
Carns, Marie Louise, B.A. g	*Knoxville, Ill.*
Chen, KoKuei, B.S. g	*Shanghai, China*
Curtin, James Golden ls	*Milwaukee*
Dauksys, Joseph Vincent ls	*Madison*
Demetropoulos, Nicholas D. ls	*Milwaukee*
Dietsch, Leland Charles ls	*Plymouth*
Drake, Emmett Addis ls	*Mendota*
Droege, Claus ls	*Madison*
Dull, Cecil Fay ls	*Muscoda*
Dvorak, Harold Joseph ls	*Milwaukee*
Ebert, Reinhold Otto ls	*Marion*
Eisenberg, Louis Abraham ls	*Milwaukee*
Eleston, Mary Rose ls	*Madison*
Fellows, Frank Samuelson ls	*Algoma*
Fiedler, George Adolph, ls	*Holcombe*
Fitzgerald, John Bertram ls	*Fond du Lac*
Flarity, Thomas Harold ls	*Edgerton*
Florin, Alvin Christian ls	*Fountain City*
Fredrick, Harry Yoma ls	*Westfield*
Freitag, Vernoica ls	*New Glarus*
Freidbacher, Karl ls	*West Allis*
Gertz, Michael Alexander ls	*Hurley*
Gillis, Archie Edward ls	*Antigo*
Goldberg, Irving, ls	*Milwaukee*
Gute, Edwin Bertram ls	*Milwaukee*
Harman, John Claire ls	*Sparta*
Heimdal, Clarence Oliver ls	*Minneapolis, Minn.*
Henke, Harold Eugene, B.A. g	*Baraboo*
Holcombe, Robert Lyndon ls	*Madison*
Kaderabek, Erwin Joseph ls	*Manitowoc*

Kehrein, Harold Clarence ls	*Milwaukee*
Knudson, Arthur Hackel ls	*Kenosha*
Lacey, James Theophilus, Jr. ls	*Madison*
Leshin, Norman ls	*Milwaukee*
Levin, Harry Maurice ls	*Chicago, Ill.*
Lingenfelter, John Samuel ls	*Butte, Mont.*
Lutz, Oneita ls	*Sheboygan*
McCaffrey, Maurice Henry ls	*Madison*
McCormack, Stuart Alexander ls	*Madison*
MacDonald, Paul Robert, ls	*Madison*
McGuire, Harry Joseph ls	*Waunakee*
McKinley, Edwin Daniel, ls	*Dodgeville*
Mandelker, Martin ls	*Milwaukee*
Marsden, Wendell Herbert ls	*Fennimore*
Meyer, Ovid Otto ls	*Rosholt*
Murphy, William John ls	*Chilton*
Nuzum, Thomas Ochsner ls	*Janesville*
Outhouse, Alice Irene ls	*Madison*
Palmer, Robert Sterling, B.A. g	*Columbus, Ohio*
Perlman, Henry Bernard ls	*Madison*
Perrodin, Chester Alexander ls	*Wisconsin Rapids*
Pinkerton, Harold Allen ls	*Waupaca*
Platt, Frank Bertram ls	*St. Paul, Minn.*
Prehn, Fred C. ls	*Madison*
Puestow, Charles Bernard ls	*Oshkosh*
Rivard, Raymond Robert, ls	*Madison*
Romberg, Henry August ls	*Clintonville*
Sadoff, Harry ls	*Milwaukee*
Sannes, Didrick, D.D.S. g	*Madison*
Schneiders, Rufus Anton ls	*Marathon*
Schultz, Edward George, B.A.	*Kendall*
Schulz, Paul William ls	*Sheboygan*
Sibilsky, Carl Edward ls	*Algoma*
Sinaiko, Abraham, ls	*Madison*
Smith, Leonard Marshall ls	*Oshkosh*
Smith, William Marshall ls	*Oshkosh*
Suhr, Alfred Louis ls	*Milwaukee*
Sullivan, Samuel John ls	*Madison*
Tallmadge, Guy Kasten ls	*Milwaukee*
Thomas, Warren Stratman ls	*Minneapolis, Minn.*
Trauba, Norbert Carl ls	*Marathon*
Turgeson, Fletcher ls	*Richland Center*
Wakeman, J. Newton, B.S. g	*Republic, Mo.*
Watson, Ernest Starr ls	*Whitewater*
White, Wallace Beecher, ls	*Burlington*
Young, Albert Gayland, D.V.M. g	*Denver, Colo.*
Zalewski, Anthony Edward ls	*Milwaukee*

COLLEGE OF ENGINEERING

Seniors

Abrams, Ralph Bernard	*Milwaukee*	Ch.E.
Amidon, George Wallace	*St. Louis Mo.*	Ch.E.
Anderson, Gerald Andrew	*Whitehall*	Ch.E.
Andree, Clarence Alois	*Milwaukee*	E.E.
Auby, Lawrence Copeland	*Madison*	M.E.
Bader, Earl Delbert	*Lyndon Station*	E.E.
Baker, James Stannard	*Amherst, Mass.*	E.E.
Baker, Loyal Southwick	*Madison*	E.E.
Barland, George Clarence	*Eau Claire*	E.E.
Barnes, Ernest Merrill	*Stevens Point*	C.E.
Beck, Herbert Henry	*Fond du Lac*	E.E.
Beglinger, Richard Theodore	*Oshkosh*	Ch.E.
Bethke, Raymond P.	*Elkhart Lake*	M.E.
Birkenwald, Emil S.	*Milwaukee*	C.E.
Bittner, Theophilus Valerius	*Mayville*	E.E.
Björnson, Björn Gudmundsson	*Reykjavik, Iceland*	E.E.
Bowman, Philip George	*De Pere*	E.E.
Bozarth, Roger Ainslee	*Cedar Falls, Iowa*	Ch.E.
Brinck, Arne	*Christiania, Norway*	M.E.
Brown, Hugh Farrington	*St. Louis, Mo.*	C.E.
Bruce, Robert Hart	*Milwaukee*	M.E.
Bruden, Clifford O.	*Eau Claire*	C.E.
Bruemmer, Carl William	*Milwaukee*	M.E.
Bryn, Harold Bonnevie	*Kristiania, Norway*	E.E.
Buckstaff, Sherwood	*Oshkosh*	Min.E.
Buese, Frank Anthony	*Kilbourn*	M.E.
Bulfer, Augustine Joseph	*Peru, Ill.*	Ch.E.
Butler, Jerome Roger	*Watertown*	C.E.
Cairns, Samuel Budde	*Houghton, Mich.*	M.E.
Campbell, Claude Wesley	*Beloit*	M.E.
Carson, William Henry, Jr.	*Madison*	M.E.
Chase, Leon Everett	*Viroqua*	C.E.
Christensen, Martin	*Milwaukee*	E.E.
Christianson, Carl Bernard	*Stevens Point*	C.E.
Clark, Manley Haynes	*River Falls*	Ch.E.
Coddo, William Elmer	*Antigo*	M.E.
Coleman, Edwin DeWitt	*Barron*	Ch.E.
Collins, Sidney Raymond	*Reedsburg*	C.E.
Connell, Walter James	*Menomonee Falls*	C.E.
Cotton, Alfred Robert	*Milwaukee*	E.E.
Cox, Edward Lorenz	*Madison*	M.E.
Cox, Irving Knapp	*Milwaukee*	M.E.
Davies, Franklin Case	*Racine*	M.E.
Dewire, Donald Stevens	*Sharon*	E.E.
Dick, Walter Erwin	*Milwaukee*	E.E.
Dickinson, James Gilbert	*Milwaukee*	E.E.
Douglas, Malcolm Stewart	*Madison*	C.E.
Drew, Everett Glen	*Dubuque, Iowa*	Ch.E.

Drewry, Montrose Keller	*Madison*	M.E.
Ebentier, Albert Frank	*Sutton, N. Dak.*	Ch.E.
Ellis, Asher Robert	*Madison*	Ch.E.
Elstad, Edward Melvin	*Whitehall*	Min.E.
Erbach, Frederick Rietbrock	*Athens*	M.E.
Erickson, Cyril Lambert	*Mondovi*	M.E.
Erickson, Robert	*Cashton*	Min.E.
Fanning, Willis Moore	*Delavan*	Ch.E.
Felber, Edward Richard	*Chippewa Falls*	M.E.
Feltman, Carl Howard	*Peoria, Ill.*	E.E.
Fong, Samuel Thomas	*Canton, China*	Ch.E.
Foote, Perry Albert	*Erie, Pa.*	Ch.E.
Fourness, Earl Edward	*Appleton*	Min.E.
Garber, Leslie Harold	*Diamond Bluff*	E.E.
Geilfuss, Marshall Adrian	*Milwaukee*	C.E.
Gerhauser, John Parrmann	*Madison*	Ch.E.
Gericke, Wesley Otto	*Lake Mills*	Min.E.
Giles, Merritt Albert	*Peoria, Ill.*	M.E.
Glenn, Truman Greve	*Chilton*	M.E.
Golley, Frank Benjamin	*Milwaukee*	Ch.E.
Graves, Spencer Frank	*Wausau*	E.E.
Gray, Charles Richardson	*Washington, D. C.*	E.E.
Greiling, Winford Walter	*Green Bay*	M.E.
Grieve, Gilbert George	*Madison*	Min.E.
Gross, George Harrison	*York, Pa.*	M.E.
Gruppe, Alfred Henry	*West Milwaukee*	C.E.
Gude, Hans Erick Anker	*Kristiania, Norway*	C.E.
Guillemin, Ernst	*North Milwaukee*	E.E.
Hanley, Edward Vincent	*Milwaukee*	M.E.
Hanson, Earl Parker	*Milwaukee*	M.E.
Hanson, Paul Edward	*Mondovi*	C.E.
Harvey, Lyle Clifford	*Oconto*	Ch.E.
Heins, Rudolf Jacob	*Madison*	E.E.
Henry, Edison Earl	*Ashland*	M.E.
Herrick, Roswell Harry	*Mineral Point*	E.E.
Hill, Alvah Moore	*Onalaska*	Min.E.
Hill, George Amos	*Baraboo*	E.E.
Hirshberg, Maurice Arthur	*Milwaukee*	Ch.E.
Hoe, George Marston	*Milwaukee*	C.E.
Hoff, Carl Johan Reinhardt	*Kristiania, Norway*	E.E.
Holmes, John Bennett	*Point Pleasant, W. Va.*	Min.E.
Hornibrook, Francis Crary	*Marinette*	E.E.
Howes, Merwin Hayden, Jr.	*South Milwaukee*	Min.E.
Howland, Gardiner Greene	*Butte, Mont.*	Ch.E.
Hubbard, Honore Clinton	*Evansville*	Ch.E.
Huebner, Bernard William	*Madison*	M.E.
Huegel, Arthur John	*Milwaukee*	Ch.E.
Hunziker, Chester Earl	*Tomahawk*	M.E.
Jaeger, Walter Carl William	*Cleveland*	C.E.
Johnson, James Warren	*Rye, Fla*	C.E.
Jones, Logan Alfred	*Waukesha*	E.E.
Jones, T. Delbert	*Wales*	Min.E.
Karas, Leland Lewis	*Chicago, Ill.*	M.E.

Kellett, William Richard	*Neenah*	Ch.E.
Kellogg, Rolland Francis	*Edgerton*	M.E.
Kemler, Herbert James	*Platteville*	Min.E.
Kessler, Lewis Harold	*Columbia City, Ind.*	C.E.
Kircher, Ralph Nuel	*Merrill*	M.E.
Kirk, Cecil Humphrys	*Benchland, Mont.*	E.E.
Kirst, Leland Avery	*Dodgeville*	Ch.E.
Klement, Elmore Fred	*Ft. Atkinson*	C.E.
Knollin, Albert Jason, Jr.	*Pocatello, Idaho*	C.E.
Krotz, Alva Shirley	*Janesville*	M.E.
Lallier, Wesley Charles	*Madison*	E.E.
Lamboley, Julian Joseph	*Belleville*	E.E.
Lanning, Brown Clifford	*Black River Falls*	E.E.
Latimer, George Theodore	*Chester, S. C.*	C.E.
Ledin, Theodore Axel	*Kenosha*	Ch.E.
Lee, Harold Rudolph	*Superior*	E.E.
Lehman, Donald Griffith	*Waupaca*	E.E.
Linden, John Fred	*Hayward*	Min.E.
Livingston, Penn P.	*Elk Mound*	C.E.
Longenecker, Ernst Abraham	*Neillsville*	M.E.
Loomis, Casey Vaughn	*Milwaukee*	E.E.
Lord, George Curtis	*Cando, N Dak.*	E.E.
Love, Merrill DeWitt	*Emerald*	M.E.
Lunda, Ernest Milo	*Madison*	E.E.
Mabry, Armon Ercell	*Roanoke, Va.*	C.E.
Magann, Joseph Wilbur	*Madison*	E.E.
Maiers, Joseph Adam	*Madison*	C.E.
Mansfield, Herbert Stanley	*Okauchee*	E.E.
Maxfield, Terrell Benjamin, Jr.	*Milwaukee*	M.E.
Merriman, Charles Royce	*Beloit*	Ch.E.
Meyrick, Gordon Sumner	*Thiensville*	E.E.
Moehlman, William Frederick	*Madison*	C.E.
Mohr, Ernst John	*Milwaukee*	E.E.
Moon, Parry Hiram	*Madison*	E.E.
Moxon, Earl Robert	*Stevens Point*	C.E.
Nason, Charles Seymour	*Kenilworth, Ill.*	Ch.E.
Neumeister, Carl Louis	*Sheboygan*	Ch.E.
Newing, William Bowyer	*Appleton*	C.E.
Nolte, Frederick William	*Wauwatosa*	E.E.
Nordstedt, Einar August	*Milwaukee*	E.E.
O'Connor, William Donald	*Hancock*	M.E.
Olson, Goldie Raymond	*Preston, Minn.*	E.E.
Oyster, Dallas Joshua	*Ripon*	E.E.
Palmer, Gail Wesley	*Wauwatosa*	E.E.
Parsons, Cecil Paul	*Sparta*	E.E.
Paulus, Raymond Lawrence	*Milwaukee*	E.E.
Pekofsky, Philip	*Milwaukee*	Ch.E.
Peterson, Sterling Donald	*Madison*	E.E.
Pfeffer, Oscar	*Milwaukee*	Min.E.
Phillips, Harry Alexander	*Evanston, Ill.*	M.E.
Pidcoe, Weston William	*Madison*	M.E.
Powell, Robert Bruette	*Wausau*	C.E.
Powers, Milton Alden	*Cudahy*	M.E.

Price, James Robertson	*Milwaukee*	C.E.
Prideaux, Gwilyn Fremont	*Dodgeville*	E.E.
Radley, Harmon Monroe	*Wild Rose*	C.E.
Rafield, Ernest August	*Green Bay*	M.E.
Rau, Irving Julius	*North Milwaukee*	Ch.E.
Raube, Reinhold Henry	*Waupun*	M.E.
Redin, Roy W.	*Rockford, Ill.*	Min.E.
Reuter, William Robert	*Milwaukee*	C.E.
Richardson, Claude Irving	*Dane*	E.E.
Richardson, Nels C.	*Sioux Falls, S. D.*	M.E.
Richter, Charles Frederick Rand	*Milwaukee*	M.E.
Robar, Garret Dewey	*Aurelia, Iowa*	E.E.
Robertson, Martin Rindlaub	*Platteville*	Ch.E.
Rohlfing, Anthony Ferdinand	*Milwaukee*	C.E.
Rolland, Sverre Lind	*Bergen, Norway*	C.E.
Rove, Olaf Norberg	*Milwaukee*	C.E.
Rundorff, Robert Link	*Burlington, Iowa*	Ch.E.
Ryan, George Parker	*Madison*	Ch.E.
Ryan, Joseph Edward	*Janesville*	C.E.
Samp, Arthur Martin	*Cecil*	M.E.
Schaub, Reginald R.	*Kewaskum*	M.E.
Schneider, George Russell	*East Liverpool, Ohio*	C.E.
Schubring, George Frederick	*So. Milwaukee*	C.E.
Shapiro, Leo Henry	*Milwaukee*	C.E.
Sharp, Howard Melbourne	*Oconto Falls*	E.E.
Sickert, Otto Leonard	*Milwaukee*	Min.E.
Siebken, Herman Peter	*Elkhart Lake*	M.E.
Silverstone, Leon	*Milwaukee*	Ch.E.
Slezak, Gustav	*Racine*	M.E.
Slichter, Donald Charles	*Madison*	Ch.E.
Soll, Rolland Hugo	*Milwaukee*	Ch.E.
Spielman, Harold Joseph	*Park Ridge, Ill.*	Ch.E.
Staehle, Karl Arthur	*Manitowoc*	E.E.
Strom, Sverre	*Drammen, Norway*	M.E.
Strong, Thomas Foster	*Madison*	C.E.
Svitavsky, Robert Ingersoll	*Racine*	E.E.
Swift, John Disnouef	*Portage*	M.E.
Taranger, Aksel	*Kristiania, Norway*	E.E.
Terry, Owen Rockefeller	*Stoughton*	E.E.
Thiel, Walter Conrad	*Schleisingerville*	C.E.
Traub, Walter George	*Milwaukee*	Ch.E.
Trebus, Erwin Henry	*Eau Claire*	E.E.
Trueblood, Wilson David	*New York City, N. Y.*	Ch.E.
Uhlig, William Frank	*East Orange, N. J.*	Min.E.
Varney, Forrest Franklin	*Greenwood*	C.E.
Wallman, Otto Fred	*Stratford*	M.E.
Wegner, Gilbert Walter	*Wausau*	Min.E.
Wengel, Raymon William	*Madison*	Ch.E.
Wheaton, Herbert Hudson	*La Crosse*	C.E.
Wheeler, Charles Eugene, Jr.	*Beloit*	C.E.
Wille, Clarence Wilkins	*Milwaukee*	Ch.E.
Willis, Irving	*Milwaukee*	M.E.
Wolfe, Frank Tisch	*Kenosha*	M.E.

Wolters, Herbert Henry	*La Crosse*	Min.E.
Woods, James Park	*Madison*	M.E.
Youngberg, Adolph Frederick	*La Crosse*	C.E.
Zander, Carl Levanhagen	*Manitowoc*	C.E.
Zelonky, Benjamin	*Milwaukee*	C.E.
Zervas, Walter Otto	*Milwaukee*	C.E.
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Juniors

Adam, Louis George	*Horicon*	E.E.
Ahern, Thomas Leo	*Fond du Lac*	M.E.
Ahrens, Benjamin Frank	*Mukwonago*	C.E.
Aiken, Howard Hathaway	*Madison*	E.E.
Ames, Kenneth Shirley	*Kenosha*	Ch.E.
Anderson, Carter Henry	*Mauston*	Ch.E.
Anderson, Roy Percy	*Superior*	M.E.
Austermann, Richard Wagner	*Madison*	E.E.
Bandelman, Oliver John	*Mitchell, S. Dak.*	C.E.
Banks, Frederick Thomas	*Ashland*	E.E.
Bartels, William Carl	*Sheboygan*	E.E.
Becker, Lloyd Grant	*La Crosse*	Ch.E.
Bender, Cleburn Smith	*Nashville, Tenn.*	M.E.
Bennett, George Vincent	*Janesville*	Ch.E.
Betzer, Cecil Everett	*Kenosha*	E.E.
Bittner, Victor Frederick	*Mayville*	Ch.E.
Blaisdell, Charles Oswald	*Darlington*	E.E.
Bode, John Carl	*Keokuk, Iowa*	Ch.E.
Bogumill, Thomas Richard	*Thorp*	Ch.E.
Bohman, Robert Bruce	*Shorewood*	E.E.
Bonner, George Edward	*Oconto Falls*	E.E.
Bopf, Edward Carl	*Wausau*	E.E.
Boruszak, Nathan	*Milwaukee*	E.E.
Bowers, Archie Frank	*Hudson*	M.E.
Brandau, Earl Randolph	*Milwaukee*	M.E.
Brown, Arthur E.	*Madison*	C.E.
Brown, Theron Adelfert	*Madison*	E.E.
Buchner, Earl Frank	*Mayville*	Min.E.
Bumer, Frank Ludwig	*Pittsburg, Pa.*	C.E.
Burelbach, Peter John	*Knowles*	E.E.
Cafferty, Neil George	*Madison*	E.E.
Chase, Sherman	*Madison*	M.E.
Christopherson, Fritz	*Grantsburg*	C.E.
Chyle, John Joseph	*Cudahy*	Ch.E.
Clark, Lemore Wilder	*Evansville*	E.E.
Clark, Robert Astly, Jr.	*Mauston*	E.E.
Cobb, Elbert Smith	*Lake Geneva*	C.E.
Coe, Simeon Miles	*Sterling, Ill.*	E.E.
Collins, William Allan	*Shopiere*	C.E.
Colony, Martin Pratt	*Evansville*	E.E.
Connolly, Robert	*Racine*	C.E.
Day, John Gould	*Madison*	E.E.

Debbink, Claude John	*Milwaukee*	C.E.
Dickson, Lester Raymond	*Milwaukee*	Ch.E.
Dieterle, John Herbert	*West Allis*	M.E.
Dohr, Ira Robert	*Kimberly*	E.E.
Donnelly, Daniel Wilfred	*Appleton*	M.E.
Duket, Sandy	*Marinette*	E.E.
Dunn, Clark Allan	*Stickney, S. Dak.*	C.E.
Eddy, Robert William	*Madison*	E.E.
Edwards, David Harold	*Cambria*	Ch.E.
Edwards, Max Hadsell	*Toledo, Ohio*	E.E.
Ellison, Frederick John	*Fond du Lac*	M.E.
Engler, Hugo Fred	*Waukesha*	C.E.
Ennor, William Trehane	*Madison*	Ch.E.
Evans, Herbert Pulse	*Chattanooga, Tenn.*	E.E.
Ewald, Sterling Donald	*Louisville, Ky.*	M.E.
Farwell, Knight Dick	*Chicago, Ill.*	C.E.
Finkle, George Henry	*Greenwood*	E.E.
Fitze, Maurice Edward	*Beloit*	M.E.
Flynn, William Patrick	*Milwaukee*	E.E.
Frank, David Soloman	*Sparta*	Ch.E.
French, Newell Ellsworth	*Racine*	E.E.
Friedman, Abraham Samuel	*Racine*	M.E.
Frost, Morton Charles	*Kenosha*	M.E.
Ganther, Alfred Roman	*Oshkosh*	M.E.
Garrity, Leo Valentine	*Hudson*	C.E.
Gassner, Aloysius Frederick	*Mayville*	E.E.
Germond, Hallett Hunt	*Madison*	E.E.
Gildersleeve, Tuttle Sherman	*Childs, Pa.*	E.E.
Giuli, Thomas	*Milwaukee*	C.E.
Gluesing, William Albert	*Gilmanton*	E.E.
Goddard, Merrill Beecroft	*Madison*	M.E.
Goetz, Fred Eldred	*Milwaukee*	E.E.
Gray, John Engel	*Mineral Point*	M.E.
Green, Sherman Baldwin	*Jerome, Idaho*	C.E.
Greenberger, Elberto Bernhardt	*East Las Vegas, N. Mex.*	M.E.
Greenman, Ralph Norton	*Aberdeen, S. Dak.*	C.E.
Groot, Robert Wayne	*Elmwood*	E.E.
Guffey, Francis Amsden	*Clyde, Ohio*	C.E.
Gunther, Gustav Adolph	*Spooner*	M.E.
Haddorff, Irving R.	*Rockford, Ill.*	C.E.
Hamilton, Frank John	*Madison*	Ch.E.
Hanks, William Vilas	*Madison*	Ch.E.
Hansen, Magnus Christian	*Thorp*	Ch.E.
Hansen, Merrill Elmore	*Beloit*	Ch.E.
Hanson, Malcolm Parker	*Milwaukee*	E.E.
Harbaugh, Marion Dwight	*Kansas City, Mo.*	Min.E.
Hare, Clarence Matthew	*Barksdale*	Ch.E.
Hart, Lyman Herbert	*Madison*	Ch.E.
Hartwell, Henry Thomas	*Madison*	M.E.
Haugen, Edmond Harrison	*Brookings, S. Dak.*	M.E.
Hedstrom, Lawry Henry	*Kenosha*	E.E.
Henke, Herbert Frank	*Watertown*	E.E.
Henrichsen, Knut	*Bergen, Norway*	C.E.

Henry, George Barrett	*Terre Haute, Ind.*	E.E.
Hensey, Earl William	*Fort Atkinson*	Ch.E.
Hentzen, Herbert Dick	*Milwaukee*	Ch.E.
Herbener, Otto Berthold	*Mayville*	Min.E.
Hering, Reuben Eugene	*Cross Plains*	E.E.
Herrick, Neal Dow	*Ipswich, S. Dak.*	E.E.
Hillstrom, William Simon	*Park City, Utah*	E.E.
Hockings, William Francis	*Burlington*	E.E.
Hoelz, Alfred Nicholas	*Milwaukee*	E.E.
Hoelz, Carl Edward	*Milwaukee*	E.E.
Hoffman, LaVerne Milton	*Wilton*	C.E.
Holm, Harold Wilhelm	*Racine*	E.E.
Hotaling, Eugene Charles	*Fond du Lac*	Ch.E.
Hume, Lloyd Edward	*Endeavor*	E.E.
Hyer, Frank Perry	*Whitewater*	E.E.
Isdahl, Einar	*Bergen, Norway*	M.E.
Jewell, Floyd B.	*New Lisbon*	C.E.
Johnson, Irving Burditt	*Madison*	E.E.
Johnson, James C., Jr.	*Wauwatosa*	E.E.
Johnson, John Basil	*Madison*	C.E.
Johnson, Lloyd Martin	*Superior*	M.E.
Johnson, Royce Everett	*Bear Creek*	E.E.
Johnson, Rudolph Clarence	*Chicago, Ill.*	M.E.
Jones, Everett Ward	*Fond du Lac*	Min.E.
Joys, John Eastman	*Milwaukee*	M.E.
Kaasa, Orin Gordon	*Merrill*	Ch.E.
Kahlenberg, Roger William	*Two Rivers*	M.E.
Kavanaugh, Paul Edward	*Antigo*	E.E.
Kelhofer, Leon Martin	*Madison*	E.E.
Kelly, Daniel Sheldon Whipple	*Pierre, S. Dak.*	E.E.
Kent, Hugh, Jr.	*Dundee, Ill.*	C.E.
Kersten, Aurin William	*Hartford*	E.E.
King, Kenneth Jacob	*Superior*	M.E.
Kingston, Lyle Henry	*Marinette*	E.E.
Kitchen, Harry Dean	*Madison*	Ch.E.
Klak, John James	*Thorp*	E.E.
Klann, Alvin Rietbrock	*Milwaukee*	E.E.
Klaus, Gustav Kuestermann	*Green Bay*	Ch.E.
Knecht, Otto Hesselorth	*Chicago, Ill.*	C.E.
Knott, William Morgan	*Antigo*	E.E.
Koch, Aaron Irwin	*Osceola*	M.E.
Koerner, Edwin Otto	*Sheboygan*	E.E.
Kolb, John Karl	*Chippewa Falls*	M.E.
Krause, Carl Walter	*Mellen*	M.E.
Krenz, Adolph Bruno	*Onalaska*	M.E.
Krenz, Alfred Samuel	*Jefferson*	Ch.E.
Kroncke, Earl Alfred	*Madison*	C.E.
Krueger, Raymond Arthur	*Merrill*	E.E.
Kubosch, Frank	*Milwaukee*	Ch.E.
Kuehlthau, Wareham Adam	*West Bend*	E.E.
Kvaven, Sven	*Sirdal, Norway*	E.E.
Labudde, John Frederick	*Oshkosh*	C.E.
Lamb, Kenneth Ellsworth	*Madison*	E.E.

Landkamer, Othmar Frank	*Mankato, Minn.*	E.E.
Larson, Carl Frithiof	*Florence*	Min.E.
Larson, Guy Henry	*Forestville*	Min.E.
Larson, Noble Guy	*Barron*	E.E.
Leemhius, Carl William	*Toledo, Ohio*	Min.E.
Leonard, John Burton	*Oshkosh*	M.E.
Lewis, Hugh Lord	*Antigo*	M.E.
Lewis, Robert Benjamin	*St. Louis, Mo.*	Ch.E.
Liebert, Eugene George	*Milwaukee*	M.E.
Latter, Joseph Conrad	*Seymour*	E.E.
Loverud, Earl K.	*Stoughton*	C.E.
Lu, William Chia Chun	*Peking, China*	M.E.
Luedtke, Elroy Robert	*Reedsville*	C.E.
McArthur, Donald Arthur	*Gary, Ind.*	M.E.
McCann, Augustus Ripley	*Madison*	E.E.
McGraw, Ernest Andrew	*Lake Geneva*	Ch.E.
McKay, Nevin Holliday	*Plainfield, N. J.*	Min.E.
Mackie, James Everett	*Green Bay*	C.E.
Mangold, John Victor	*Madison*	Min.E.
Manke, Arthur Gustav	*Norwalk*	E.E.
Manning, Willis L.	*Clark, S. Dak.*	M.E.
Mansfield, Carroll Golden	*Wild Rose*	E.E.
Mariategui, Benjamin	*Lima, Peru, S. A.*	C.E.
Marks, Israel Edward	*Kenosha*	C.E.
Marquez, Ramon Gregorio	*Lucena Tayabas, P. I.*	Min.E.
Mathy, Anton	*Brussels*	C.E.
Maurer, Harold John	*Milwaukee*	M.E.
Meyers, Everett Charles	*Reedsburg*	C.E.
Michael, Constant Hadji	*Neenah*	M.E.
Miller, Clarke Cordis	*Racine*	Ch.E.
Miller, Thomas Foster	*Green Bay*	E.E.
Millington, Fred Meader	*La Crosse*	Ch.E.
Mills, Kenneth Newman	*Pittsburg, Pa.*	C.E.
Minshall, Neal Edward	*Viroqua*	C.E.
Mitchell, Norman McLeod	*Tomahawk*	M.E.
Mogg, J. Owen	*Fontana*	M.E.
Mohs, Carl Edward	*Madison*	C.E.
Moorhead, John Kenneth	*Minneapolis, Minn.*	Ch.E.
Morey, Howard Elmer	*Plainfield*	Ch.E.
Muegge, Oswald John	*Walsh, Ill.*	C.E.
Murphy, Dennis John	*Buhl, Minn.*	E.E.
Nelson, Carl Oliver	*Eau Claire*	M.E.
Nelson, Edwin Fritchief	*Superior*	Ch.E.
Nelson, Floyd Elmer	*Kenosha*	E.E.
Nemela, Hugo Walter	*Buhl, Minn.*	E.E.
Nerad, Anthony Joseph	*Racine*	M.E.
Neumann, Adelbert George	*Milwaukee*	E.E.
Newell, Foster Sherriff	*Irma*	Ch.E.
Nichols, Thomas Chester	*Milwaukee*	M.E.
Nielsen, Arnold Helmuth	*Sparta*	E.E.
Niles, Thomas McMaster	*Oak Park, Ill.*	C.E.
Nixon, Cleveland Ford	*Racine*	Ch.E.
Nogueira, Frederico Pupo	*Campinas, Brazil*	E.E.

Norau, John Eliseus	*Superior*	C.E.
Norberg, Thomas	*Christiania, Norway*	M.E.
Olson, John Hjalmar	*Hurley*	C.E.
Onstad, Ragnar Erick	*Madison*	E.E.
Ostrander, Sylvester Benjamin	*Columbus*	M.E.
Ott, Elmer Albert	*Forest Junction*	E.E.
Palmer, Walter Webster	*Oakfield*	M.E.
Pauley, John Otto	*Milwaukee*	C.E.
Peterson, Harold Arthur	*Odanah*	E.E.
Peterson, Julian LeRoy	*Beloit*	M.E.
Pfeiffer, Milton Julius	*Plymouth*	E.E.
Pfleger, Walter Edward	*Milwaukee*	Ch.E.
Phillips, Rufus Seeley	*Madison*	M.E.
Philo, Clifford Allen	*Deer Creek, Minn.*	C.E.
Pickford, Jerome Michael	*Cudahy*	Ch.E.
Porth, Walter Henry	*Milwaukee*	M.E.
Potts, John Arlington	*Madison*	E.E.
Price, Elmer Ehlers	*McComb, Miss.*	C.E.
Purnell, George William	*Madison*	M.E.
Rabbitt, Ora Clyde	*Viroqua*	C.E.
Rabuck, Arthur Jacob	*Reedsburg*	C.E.
Radke, Alfred Herbert	*Madison*	Ch.E.
Rahr, Frederick Albert, Jr.	*Green Bay*	E.E.
Reichelt, Lester Oswald	*La Crosse*	M.E.
Rian, John	*Buhl, Minn.*	E.E.
Rice, Wallace Hervey	*Kansas City, Mo.*	C.E.
Richmond, Lawrence Palmer	*Lodi*	E.E.
Rietow, Lincoln Alfred	*Sheboygan*	M.E.
Riggs, Burd Joy	*Crandon*	M.E.
Roberts, John William	*Milwaukee*	Ch.E.
Robinson, Warren Jethro	*Madison*	Ch.E.
Rolsted, Simon Theodore	*Barron*	M.E.
Rufsvold, Arnold Sofus	*Marinette*	E.E.
Rusch, Hugo Leonard	*Reedsville*	E.E.
Russell, Cecil Ruppell	*Christchurch, New Zealand*	C.E.
Rynders, Arthur	*Antigo*	M.E.
Scadden, Francis Herbert Clive	*Madison*	Min.E.
Schacht, Delbert Herman	*Augusta*	E.E.
Schmidt, Chester John	*Monroe*	M.E.
Schmidt, Louis Adelbert, Jr.	*Milwaukee*	C.E.
Schmit, Dominic Frank	*Port Washington*	E.E.
Schneider, Alfred William	*Milwaukee*	C.E.
Schoenlaub, Harold Houghton	*Madison*	E.E.
Schultheis, Herbert John	*Milwaukee*	Ch.E.
Senger, Werner Irving	*Madison*	M.E.
Shaw, Ralph	*La Crosse*	C.E.
Shore, Franklin	*Chicago, Ill.*	C.E.
Silver, Charles Eugene	*Milwaukee*	M.E.
Simons, Fred Adams	*Newtonville, Mass.*	C.E.
Siezak, John	*Racine*	M.E.
Smart, John Wilfred	*Montello*	E.E.
Smongeski, Paul Peter	*Two Rivers*	M.E.
Sobey, James Henry	*Dodgeville*	E.E.

Sogard, Lawrence Taylor	*Racine*	C.E.
Sola, Fernando	*Buenos Aires, Argentina, S. A.*	E.E.
Spetz, Ralph Ferdinand	*Milwaukee*	C.E.
Spielman, Gordon Peter	*Park Ridge, Ill.*	M.E.
Stalker, Dwight Flack	*St. Anthony, Idaho*	M.E.
Steel, Homer James	*Milwaukee*	M.E.
Steffen, Milton Carl	*Milwaukee*	E.E.
Stein, Jerome Reed	*West Bloomfield, N. Y.*	E.E.
Steinmetz, George	*La Farge*	C.E.
Stewart, Frederick Charles	*Madison*	M.E.
Stewart, Lynn William	*Rockford, Ill.*	Ch.E.
* Stillman, James Irish, B.A.	*Milton*	C.E.
Strock, Reeve Orno	*Polo, Ill.*	E.E.
Strothman, Edmund Pennel	*Milwaukee*	M.E.
Stumpf, Walter Peter	*Madison*	M.E.
Sullivan, John Frederick, Jr.	*Hurley*	M.E.
Terry, Eugene John	*Baraboo*	E.E.
Tesch, George Walter	*Port Washington*	Ch.E.
Tesch, Willard John	*Port Washington*	Ch.E.
Thessin, Paul George	*Milwaukee*	M.E.
Thomas, Walter Edward	*Milwaukee*	Ch.E.
Timmons, James Samuel	*Monroe*	E.E.
Ting, Ssu Hsien	*Peking, China*	Ch.E.
Tobin, Harold Heber	*Mellen*	Ch.E.
Torgeson, Oscar Winfield	*Madison*	C.E.
Traiser, Louis Martin	*New Richmond*	E.E.
Trayser, Anthony Chester	*New London*	E.E.
Trinnier, Charles Marvin	*Denver, Colo.*	Ch.E.
Trotter, Richard Adelbert	*Virginia, Minn.*	M.E.
Tschudy, Lionel Carl	*Monroe*	C.E.
Van Alstyne, Pierce John	*Appleton*	E.E.
Vander Kodde, William Frederick	*Sheboygan*	E.E.
Vergin, Charles John	*Poy Sippi*	Min.E.
Vilberg, Clarence Benjamin	*Mount Horeb*	C.E.
Villatuya, Roberto Pedron	*Luisiana, Laguna, P. I.*	C.E.
Vitcenda, Theodore J.	*Cashton*	Min.E.
Votteler, Theodore	*Waukesha*	Ch.E.
Wade, Irving Luther	*Wauwatosa*	M.E.
Walden, Donald Oxford	*Alamo, Tex.*	C.E.
Walker, Albert Livingston	*Oak Park, Ill.*	M.E.
Warmuth, Henry Joseph	*Philadelphia, Pa.*	Ch.E.
Watson, Kenneth Merle	*Mauston*	Ch.E.
Watts, Wilbur Edmund	*Lomira*	E.E.
Webster, Francis Lyle	*Madison*	E.E.
Weckwerth, Herbert Frederick	*South Kaukauna*	E.E.
Welch, Halbert Austin	*Oconomowoc*	M.E.
Wessely, Edward Arthur	*Kewaunee*	M.E.
White, Emil	*Racine*	C.E.
Wicker, Kenneth Russel	*Abbotsford*	C.E.
Wolters, Edward Christian	*La Crosse*	Min.E.

* Milton College Scholar.

Wolverton, Robert Farow	*Oshkosh*	Min.E.
Woschutz, Joseph Frank	*Milwaukee*	Min.E.
Wu, Wei Chou	*Sianfu, China*	E.E.
Wupper, Benjamin Franklin	*Milwaukee*	M.E.
Zander, Arnold Scheuer	*Two Rivers*	C.E.
Zapata, Jose	*Madison*	Min.E.
Zoer, Howard McKinley	*Two Rivers*	M.E.
Zuelow, Felix William	*Milwaukee*	E.E.
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Sophomores

Ackerman, Adolph John	*Milwaukee*	E.E.
Addington, Harold	*Willow River, Minn.*	M.E.
Alberts, Harry Carl	*Milwaukee*	M.E.
Amundson, Helmer Clarence	*Rio*	C.E.
Anderson, Carl Hans	*Milwaukee*	M.E.
Anderson, Harold Walter	*Merrill*	C.E.
Anthony, Herman Russell Chidester	*Madison*	M.E.
Aultman, Dwight Edward, Jr.	*Camp Dix, N. J.*	E.E.
Averill, Robert Lincoln	*Batavia, Ill.*	E.E.
Baehr, William Byron	*Glencoe, Ill.*	Ch.E.
Barker, Herman H.	*Noblesville, Ind.*	E.E.
Barker, Orrin William	*Madison*	M.E.
Barrus, Warner Milnott	*Clinton*	E.E.
Beatty, William Gibbs	*Birmingham, Ala.*	Min.E.
Becker, Elmer William	*Appleton*	C.E.
BeDell, Audrey Burr	*Green Bay*	M.E.
Beer, Paul George	*Port Washington*	E.E.
Behm, Carl Frederick	*Omro*	E.E.
Benishek, Adolph John	*Manitowoc*	C.E.
Bentson, Harold Jack	*Kenosha*	M.E.
Berg, Leo Frank	*Lima Center*	E.E.
Bieber, Clarence George	*Regina, Saskatchewan, Canada*	Ch.E.
Bienfang, Arnold John	*Jefferson*	C.E.
Blanch, Frederick Doig	*Claremont, Minn.*	E.E.
Boerner, Thomas James	*Port Washington*	E.E.
Boettcher, William Walter	*Wausau*	E.E.
Bolender, Howard Hosier	*Monroe*	M.E.
Boley, Walter William	*Cleveland, Ohio*	Min.E.
Bonawitz, Walter George	*Milwaukee*	C.E.
Bond, Jerome Sanford	*Milwaukee*	M.E.
Bradley, Clare Smith	*Beloit*	Ch.E.
Branovan, Leo	*Milwaukee*	E.E.
Breed, Bowman Knight	*Racine*	M.E.
Breimeister, Harry	*Milwaukee*	C.E.
Breitenbach, William Edgar	*Madison*	Ch.E.
Breivogel, Milton William	*Two Rivers*	C.E.
Bruce, John Nathan	*Shawano*	M.E.
Bruhnke, Leslie Thiele	*Milwaukee*	M.E.
Brumm, Roman Henry	*Madison*	C.E.

Buerk, Frederick Carl	*Racine*	E.E.
Burkhardt, Christian Erwin	*Burkhardt*	E.E.
Buseth, Sverre Allen	*Deerfield*	E.E.
Button, Joseph	*Eau Claire*	C.E.
Bybuth, Martin Edward	*Eau Claire*	M.E.
Cahill, Walter D.	*Port Edwards*	C.E.
Caldwell, Earl Leroy	*Indianapolis, Ind.*	M.E.
Carlson, Donald Warren	*Wauwatosa*	M.E.
Carlson, Edwin Albert	*Madison*	C.E.
Carlson, George Alfred	*Chicago, Ill.*	M.E.
Carlyon, William Ralph	*Burlington*	E.E.
Cartwright, William Hugh	*Eau Claire*	C.E.
Chambers, Charles Jamieson	*El Dorado, Kans.*	M.E.
Chapman, Theron Taggart	*Oak Park, Ill.*	E.E.
Christensen, Holgar Leonard	*Neenah*	M.E.
Class, Charles Lamar	*East Orange, N. J.*	Ch.E.
Coates, Royal Edward	*Prairie du Chien*	E.E.
Cohen, Samuel Sidney	*Milwaukee*	M.E.
Cook, Maurice Stanley	*Chippewa Falls*	M.E.
Cooley, Donald Nash	*Wauwatosa*	C.E.
Corliss, Allen Gregory	*La Grange, Ill.*	Ch.E.
Covell, Arnold Benedict	*Hudson*	Min.E.
Curtis, Robert Alexander	*Eau Claire*	C.E.
Czerwonky, Hugo Emil	*Milwaukee*	M.E.
Dawley, Myron Russell	*Grinnell, Iowa*	M.E.
Day, Frank Julius	*Madison*	E.E.
Dear, Ernest Reginald	*Ironwood, Mich.*	E.E.
Derzavitz, Charles	*Milwaukee*	Min.E.
De Smith, Walter William	*Sheboygan*	C.E.
Desmond, John Thomas	*Boscobel*	C.E.
Dibley, Frederick Kemp, Jr.	*Trenton, N. J.*	C.E.
Dodge, Theodore	*River Falls*	E.E.
Doescher, Ernest Bernhardt	*Platteville*	E.E.
Dollmeyer, Walker George	*Freeport, Ill.*	Min.E.
Donaghey, James Bernard	*Madison*	C.E.
Donkle, Melvin Clarence	*Madison*	Ch.E.
Donohue, Edward Brown	*Helena, Mont.*	C.E.
Dowling, Roy Charles	*Dodgeville*	E.E.
Drews, Norman W.	*Madison*	Ch.E.
Drissen, Wallace William	*Port Washington*	M.E.
Dudley, Delos Edson	*Madison*	M.E.
Duke, John Logan	*Madison*	Min.E.
Eaton, Temple Osmon	*Virginia, Minn.*	C.E.
Eddy, Russell Morris	*Oconomowoc*	E.E.
Egan, Wilfred Martin	*Highland*	E.E.
Eisele, Dudley Edward	*Iron Mountain, Mich.*	C.E.
Engelke, Arnold Joseph	*La Crosse*	E.E.
Engelke, Herman Gerard	*Milwaukee*	Ch.E.
Erdmann, William Adolf	*Milwaukee*	E.E.
Estes, Deloit Fast	*Goshen, Ind.*	E.E.
Fahrenkrog, Elmer H.	*Logan, Iowa*	M.E.
Fairn, William Hatherell	*Janesville*	E.E.
Fiedler, Stuart Otho	*Madison*	Ch.E.

Field, Walter Sherman	*Madison*	Min.E.
Fischer, Herbert B.	*Embarrass*	E.E.
Fisk, George Robert	*St. Croix Falls*	M.E.
Flint, Clarence Ellis	*Milwaukee*	C.E.
Florman, Harold	*Pueblo, Colo.*	Ch.E.
Forrest, William Chipman	*Poynette*	E.E.
Foxon, Roy Draper	*Northampton, Mass.*	C.E.
Fraser, Allen Morgan	*Brodhead*	E.E.
Friedrichs, Alfred	*Milwaukee*	C.E.
Galby, Ralph Victor	*Chetek*	M.E.
Gallagher, William James	*Reedsburg*	C.E.
Gansen, Edward Frank K.	*Oshkosh*	E.E.
Gartner, Irl Cave	*Linneus, Mo.*	E.E.
Gary, Charles Vilas	*Madison*	Ch.E.
Gausman, William Henry	*Verona*	E.E.
Gerhardt, William Arthur	*Neenah*	Ch.E.
Gibson, Harley Louis	*Madison*	E.E.
Gibson, James King	*Wisconsin Rapids*	M.E.
Gladson, Clifford Clarence	*St. Louis, Mo.*	Min.E.
Goldberg, Ezra	*Sparta*	E.E.
Goodlad, John Alfred	*Madison*	C.E.
Goodridge, Richard Samuel	*Coleraine, Minn.*	C.E.
Gorrow, Mitchell Guy	*Appleton*	Min.E.
Goshaw, Irl Rufus	*Gary, Ind.*	E.E.
Grasse, Harold Fred	*Ripon*	C.E.
Greeley, William Frederick	*Lake Delavan*	M.E.
Greene, Ernest Wilfred	*Plant City, Fla.*	Ch.E.
Gregg, Hendrick Jefferson	*Madison*	E.E.
Greiling, David John	*Green Bay*	M.E.
Growl, Glenn Nichols	*Trempeleau*	C.E.
Guthrie, Orville	*Waukesha*	E.E.
Guttke, Walter Otto	*Berwyn, Ill.*	M.E.
Hahn, Leonard Earl	*Kenosha*	Ch.E.
Hammann, William, Jr.	*Milwaukee*	C.E.
Hansen, Harold Edgar	*Green Bay*	M.E.
Harris, Robert Edwin	*Chicago, Ill.*	Ch.E.
Hart, Willard Harry	*Mauston*	C.E.
Hawkins, Milner Haine	*Madison*	Min.E.
Hayward, Howard Vincent	*Milwaukee*	M.E.
Hazen, Harvey Duke	*Phelps*	M.E.
Heath, Oliver Kyle	*Amherst Junction*	E.E.
Henricks, Gunhar Bruner	*Madison*	M.E.
Herschleb, Henry Arthur	*Lodi*	E.E.
Hertz, Harry Raymond	*Weyauwega*	M.E.
Higginbotham, Earle Henry	*Waukegan, Ill.*	M.E.
Hildreth, Lane Warner	*Madison*	M.E.
Hill, Gilbert Kastner	*Menasha*	Ch.E.
Hilliard, Spencer Gordon	*Milwaukee*	M.E.
Hirsch, Edmund	*Milwaukee*	C.E.
Hoar, Walter George	*Shell Lake*	E.E.
Hoffman, Philip A.	*Belle Plaine*	M.E.
Holden, Charles Edward	*Burkhardt*	C.E.
Hollenbeck, Henry Clay	*Milwaukee*	M.E.

Hrubesky, George Fredrick	*Menasha*	M.E.
Hudson, Alfred	*Argentina, S. A.*	E.E.
Hummel, Jesse Edwin	*Delavan*	E.E.
Hunsader, Lawrence Joseph	*Algoma*	Min.E.
Hymer, Horace Richard, Jr.	*Lancaster*	Ch.E.
Ingraham, William Foster, Jr.	*Sioux City, Iowa*	C.E.
Janzer, Lorin Henry	*Milwaukee*	C.E.
Jardine, Zac	*Madison*	M.E.
Johnson, Edwin Eric	*Dollar Bay*	E.E.
Johnson, Floyd Dwight	*Bear Creek*	E.E.
Johnson, Howard Edward	*Ashland*	M.E.
Jossart, Ferris Prosper	*Minocqua*	C.E.
Karnath, George Paul	*Fountain City*	M.E.
Kietzmann, Edward Herman	*Westfield*	E.E.
Keirnan, Harold Henry	*Madison*	Ch.E.
King, Ted Roosevelt	*Starkweather, N. Dak.*	C.E.
Kleinhammer, Herman Albert	*Platteville*	M.E.
Kloser, Edward	*Cassville*	Min.E.
Koch, Norman Frederick	*Milwaukee*	M.E.
Koenig, Herbert George	*Sauk City*	E.E.
Krause, Otto Harry	*Mellen*	M.E.
Krieger, Elmer Carl	*Milwaukee*	C.E.
Kriz, George Alan	*Milwaukee*	Min.E.
Kroesche, Herold Joseph	*German Valley, Ill.*	Ch.E.
Kuenzli, Walter Arthur	*Wauwatosa*	Ch.E.
Kuhe, David Birmingham	*Hubbard Woods, Ill.*	Ch.E.
Lamont, Aleck John	*Madison*	M.E.
Larson, Arthur Joseph	*Evanston, Ill.*	E.E.
Lederer, Rudolph	*Milwaukee*	C.E.
Lee, Lih Yien	*Chunking, China*	Min.E.
Leinfelder, Flavian A.	*La Crosse*	M.E.
Lessing, Otto	*Urbana, Ill.*	E.E.
Le Veille, Wilfred Donald	*Ladysmith*	C.E.
Lilja, Edgar David	*Rockford, Ill.*	E.E.
Lillis, Norman Kenneth	*Rockford, Ill.*	C.E.
Lorig, Clarence Herman	*South Milwaukee*	Min.E.
Lynn, Delmar Charles	*Cornell*	E.E.
McCaffery, Richard Stanislaus, Jr.	*Madison*	Min.E
McCormick, Gerald Thomas	*Conrad, Mont.*	C.E.
McCoy, Julius Mayne	*Waitsburg, Wash.*	C.E.
McCullough, Herbert David	*Fond du Lac*	C.E.
Macken, Bernard Leo	*Madison*	Ch.E.
Madell, Frank James	*Oshkosh*	M.E.
Manson, Stewart Horn	*Wausau*	Ch.E.
Mariotte, Walter William	*Elroy*	M.E.
Martin, Clarence Richard	*Copper Hill, Ariz.*	E.E.
Mason, Warren Alexander	*Milwaukee*	M.E.
Masters, Dean Bartley	*Canton, Minn.*	E.E.
Mayer, Bertram Lorenz	*Kaukauna*	M.E.
Mayer, Herbert Clarence	*Milwaukee*	E.E.
Melcher, Harvey Rockefeller	*Stoughton*	E.E.
Merrill, Robert Allan	*Sparta*	E.E.
Migone, Enrique Joaquin	*Asuncion, Paraguay, S. A.*	E.E.

Millard, Albert Dean	*New London*	C.E.
Miller, Bert Truman	*Viroqua*	C.E.
Miller, Edward Holmes	*Green Bay*	E.E.
Miller, Ray Arnos	*Amherst*	M.E.
Miyasaki, Masao	*Lihue, Hawaii*	E.E.
Mohr, Orie Blake	*Burlington*	C.E.
Mollerus, Frederick John	*Milwaukee*	M.E.
Monroe, Howard James	*Baraboo*	Ch.E.
Mooney, Fred Elmore	*Oconto*	Ch.E.
Morgan, Edgar William	*Hebron, Ill.*	E.E.
Mueller, Carl Ernst	*Milwaukee*	M.E.
Mulholland, Clifford Arthur	*St. Louis, Mo.*	M.E.
Naab, Milton Peter	*West Bend*	E.E.
Nalbach, John Roesch	*Mowequa, Ill.*	E.E.
Nelson, Arling Alfred	*Bayfield*	Min.E.
Nelson, Floyd Arthur	*Cashton*	Min.E.
Nelson, Norman Edward	*Beloit*	E.E.
Nelson, Richard Leander	*Brooklyn, N. Y.*	M.E.
Nemetz, Victor Wenzel	*Kewaunee*	E.E.
Nethercut, Robert Clifford	*Wauwatosa*	C.E.
Nichol, Paul Alexander	*Madison*	Ch.E.
Nimmer, Frederick William	*Merrill*	E.E.
Obrecht, Arthur Matthew	*La Crosse*	E.E.
Odell, Lawrence Henry	*Delavan*	E.E.
Odell, Milford	*Madison*	E.E.
Olson, Julian Theodore	*Hixton*	E.E.
Ora, Harloff Emil	*Ashland*	C.E.
Osius, Edgar Frederick	*Plymouth*	E.E.
Otis, Edward Herman	*Madison*	C.E.
Otto, Karl Walter	*Milwaukee*	C.E.
Ouweneel, William Anton	*Milwaukee*	M.E.
Ouweneel, William Edwin	*Milwaukee*	Ch.E.
Paetow, Clarence Albert	*Milwaukee*	E.E.
Pagel, Herbert William	*Columbus*	E.E.
Palechek, Walter Richard	*Chaseburg*	M.E.
Parker, Van Dyke Nathan	*Madison*	E.E.
Pedley, Howard LeRoy	*Kenosha*	E.E.
Perry, Richard Toan	*St. Louis, Mo.*	E.E.
Peterman, Paul Howitt	*La Crosse*	E.E.
Peterson, Sidney Nathaniel	*Stockholm*	M.E.
Plautz, Edgar Gottlieb	*Milwaukee*	C.E.
Plettner, Earl Milton	*Algoma*	E.E.
Plewke, Walter Herman	*Avalon*	Ch.E.
Plummer, Richard Trezona	*Marble, Minn.*	M.E.
Polaski, Stephen Harris	*Nashotah*	M.E.
Porter, Frank M.	*Elkhorn*	E.E.
Poull, Leroy Michael	*West Bend*	M.E.
Preu, Frederick	*Fair Water*	Ch.E.
Probart, Lewis Henry	*La Crosse*	E.E.
Puracker, Ralph Erhardt	*Jefferson*	E.E.
Purvis, Adrian Arthur	*Memphis, Tenn.*	E.E.
Quammen, Delbert Jonathan	*Madison*	M.E.
Quinn, Raymond John	*Madison*	C.E.

Radke, Walter Ludwig	*Owen*	C.E.
Radle, Louis William	*Arkansaw*	E.E.
Rand, Alfred Emil	*Chicago, Ill.*	M.E.
Ratcliff, Horace Hussey	*Madison*	E.E.
Reed, George Letchworth	*San Juan, Porto Rico*	C.E.
Reed, Ralph Stanley	*Chicago, Ill.*	E.E.
Reinhart, Bruer Fairfax	*Toledo, Ohio*	M.E.
Reinhold, Max Francis	*Milwaukee*	C.E.
Riera, Juan Bernardo	*Tucuman, Argentine, S. A.*	M.E.
Risteen, Horace William	*Chippewa Falls*	M.E.
Ritchie, William Edward	*Hinsdale, Ill.*	M.E.
Roberts, Thomas Gordon	*Milwaukee*	M.E.
Roe, John Lieber	*Oshkosh*	M.E.
Rosecky, Joe	*Milwaukee*	M.E.
Rutherford, John Albert	*Baltimore, Md.*	Ch.E.
Sammond, Robert Samuel	*Madison*	E.E.
Sargis, Samson George	*Madison*	M.E.
Schaefer, Carl Eugene	*Highland Park, Ill.*	M.E.
Schjolberg, Eiler Kaurin	*Kristiania, Norway*	M.E.
Schmidt, Alex Otto	*Milwaukee*	Ch.E.
Schmidt, George John	*Milwaukee*	C.E.
Schmidt, Walter Carl	*Brillion*	E.E.
Schmitt, Kenneth Francis	*Janesville*	E.E.
Schoenoff, Waldemar Paul	*Menomonie*	E.E.
Scholes, Robert Henry	*Endeavor*	E.E.
Schubert, William Emil	*Milwaukee*	M.E.
Schudt, Joseph August	*Freeport, Ill.*	C.E.
Servatius, John Peter	*Black Creek*	Min.E.
Seybold, Fred Edgar	*Forest Junction*	E.E.
Sibbe, Carl Frederick	*Superior*	M.E.
Silver, Charles Albert	*Madison*	Ch.E.
Siren, Edward Rudolf	*Iron Belt*	Min.E.
Skow, Harold Nicholas	*Racine*	E.E.
Spoodis, Anthony	*Superior*	M.E.
Stebbins, Lawrence Lane	*Clinton, Iowa*	C.E.
Stith, Roy Lee	*Terry, Mont.*	C.E.
Stoll, Leonard DeWayne	*Sharon*	Ch.E.
Sullivan, Andrew William	*Chicago, Ill.*	C.E.
Sumner, Bort Baldwin	*Madison*	M.E.
Sun, Kwan Faung	*Shanghai, China*	E.E.
Tang, Po Chan	*Hong Kong, China*	Ch.E.
Taylor, Daniel Gilman	*Madison*	M.E.
Thiesenhusen, Orville Leonard	*Waukesha*	Ch.E.
Thomas, Everett James	*Ipswich, S. Dak.*	E.E.
Thomas, George Hill	*West Allis*	E.E.
Tjoflat, Gerald Benjamin	*Ettrick*	E.E.
Toftoy, Holger Nelson	*Madison*	M.E.
Towle, Wilbur Trayer	*Madison*	M.E.
Trenary, Horace Ivey	*Platteville*	E.E.
Tucker, Albert Belman	*Wilmette, Ill.*	Ch.E.
Vaclavik, Frank Joseph	*Two Rivers*	E.E.
Vanderwall, Edward	*Phillips*	C.E.
Van Wie, Adelbert Howard	*Racine*	E.E.

Von Kaas, Herman Karl	*Milwaukee*	M.E.
Vornholt, Karl Edward	*Madison*	E.E.
Walker, Henry Oswald	*Houghton, Mich.*	E.E.
Wallis, Robert Shephard	*Rochester*	M.E.
Wallschlaeger, Oscar John	*Manitowoc*	C.E.
Wandschneider, Fritz William	*Fort Atkinson*	M.E.
Wasson, Clinton Irish	*Muncie, Ind.*	Ch.E.
Wehmhoff, Elmore Bernard	*Burlington*	M.E.
Wehrs, Marquardt William	*Oak Park, Ill.*	M.E.
Weideman, Bernard Alfred	*Fond du Lac*	M.E.
Weimer, Bernard Arthur	*Arlington Heights, Ill.,*	Ch.E.
Weingandt, Howard Charles	*Milwaukee*	E.E.
Weiss, Harold Charles	*Rensselaer, Ind.*	Min.E.
Welch, John Francis	*Jefferson*	E.E.
Wells, John Pearl	*Lake View, Iowa*	E.E.
Welsh, Stuart Marvin	*Madison*	E.E.
Whaley, Milton Ellis	*Janesville*	E.E.
Whitten, Robert Clay	*Virginia, Minn.*	M.E.
Whitworth, William Edward	*Ansonia, Conn.*	E.E.
Wieland, Clarence Sidney	*Milwaukee*	M.E.
Wilcox, Clarendon Wilton	*Madison*	E.E.
Wiley, Richard Edmund	*Lake City, Minn.*	Min.E.
Williams, John Howard	*Waupun*	E.E.
Williamson, John Alden	*Neenah*	M.E.
Wilson, Ernest Emerson	*Cedar Falls, Iowa*	Ch.E.
Wilson, Joe Hull	*Madison*	E.E.
Wing, Orlando Harold	*Eau Claire*	E.E.
Wolworth, Lloyd Franklin	*Madison*	M.E.
Young, Ruby Reginald	*Fort Atkinson*	M.E.
Youngberg, Harold John	*La Crosse*	C.E.
Zamzow, George Louis	*Baraboo*	M.E.
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Freshmen

Abendroth, George Herman	*Milwaukee*	C.E.
Ackerman, Edmund Kennedy	*Cleveland, Ohio*	Min.E.
Aderman, Edward Frank	*Gresham*	C.E.
Albert, Kuno	*La Crosse*	Min.E.
Albert, Sterling Hartwell	*Oconomowoc*	Ch.E.
Alk, Louis Charles	*Green Bay*	C.E.
Arnold, Arthur Brown	*Madison*	M.E.
Baker, Allen Samuel	*Evansville*	C.E.
Baker, William Goodrich	*Fort Atkinson*	E.E.
Ballou, Ralph Norton	*Naperville, Ill.*	E.E.
Barthleson, Glenn Sidney	*Saxeville*	C.E.
Baumgarten, Harry Louis	*Tomah*	E.E.
Bear, Lauren Dewey	*Janesville*	M.E.
Bechlein, Norman W.	*Chilton*	E.E.
Behrens, Herbert Charles	*Fort Francis, Ont., Canada*	M.E.
Benedict, Reginald Ralph	*Medford*	E.E.
Bennett, Lester Cealian	*Endeavor*	C.E.
Bennett, Martin Toscan, Jr.	*Hartford, Conn.*	Ch.E.

Benson, William Charles	*Racine*	M.E.
Bergmann, Esbin Henry	*Sparta*	Ch.E.
Bernet, Stanley Louis	*La Crosse*	E.E.
Besserdick, Arnold Carl	*Kewaunee*	M.E.
Best, Leslie George	*Rochester*	Ch.E.
Bloodgood, Don Evans	*Elkhorn*	C.E.
Bodoh, Joseph Edward	*Shiocton*	E.E.
Bollens, Fred Henry	*Chicago, Ill.*	E.E.
Boushea, George Wade	*Onalaska*	E.E.
Boruszak, Melvin	*Janesville*	Ch.E.
Braatz, Edgar Hiram	*Brandon*	Ch.E.
Brabender, George John	*Peshtigo*	E.E.
Brackett, Max Abraham	*Elk Mound*	E.E.
Braun, Fred William	*Milwaukee*	Ch.E.
Braun, William Adolph	*Manitowoc*	Ch.E.
Brightly, Frederick Charles, Jr.	*Oak Park, Ill.*	M.E.
Brown, Ernest Harold	*Odanah*	E.E.
Brunkow, Claude Eugene	*Madison*	C.E.
Brusewitz, Cecil William	*Chinook, Mont.*	E.E.
Busby, Lynn John	*Arcadia*	C.E.
Buse, Leslie August	*Beloit*	E.E.
Bussey, Kenneth George	*Chicago, Ill.*	C.E.
Call, Rodney Warren	*Merrill*	M.E.
Campbell, Donald W.	*Evansville*	M.E.
Carlson, McKinley Steen	*Necedah*	E.E.
Cassoday, John B.	*Madison*	M.E.
Chadima, Willard	*Cedar Rapids, Iowa*	M.E.
Chao, Yangfu	*Tai-Yang, China*	C.E.
Chase, Herman Lincoln	*East Alstead, N. H.*	C.E.
Chrestensen, Carl Edward	*Sturgeon Bay*	E.E.
Christensen, Charles Fay	*Milwaukee*	C.E.
Clark, Henry Larkins	*Richland Center*	M.E.
Coate, Warren Huber	*Maywood, Ill.*	C.E.
Cosentine, Louis George	*Kenosha*	E.E.
Cottingham, Willard Sherwin	*Argonne*	C.E.
Crew, Louis Crawford	*Swiftwater, Miss.*	C.E.
Crosby, George Donald	*Madison*	M.E.
Crosby, Murray Grimshaw	*Elroy*	E.E.
Dahl, Milton Theodore	*Swea City, Iowa*	E.E.
Dahlberg, Frank Joseph	*Daggett, Mich.*	C.E.
Damerow, William Gustave	*Greenwood*	E.E.
Datesman, Hiram Moe	*Fremont, Ohio*	E.E.
Davies, William Norman	*Arden, N. Y.*	M.E.
Davy, Gordon William	*Nashotah*	M.E.
Deacon, Albert William Edwards	*Fort Smith, Ark.*	Ch.E.
Debenham, Earl	*Danville, Ill.*	M.E.
DeMan, Francis Louis	*Green Bay*	E.E.
Devendorf, Joseph Joslin	*Madison*	C.E.
Dill, Lowin William	*Oklahoma City, Okla.*	E.E.
Dingman, Roy Albert	*Milwaukee*	E.E.
Dowling, Claire Frederic	*Boscobel*	C.E.
Dukelow, Lester Nelson	*Oconomowoc*	Min.E.
Dunn, David Brandon	*Mellen*	M.E.

Dunn, Merton Melvin	*Mauston*	E.E.
Dupuis, Harry Paul	*Sigourney, Iowa*	E.E.
Dyrud, Martinus Jacob	*Baraboo*	Ch.E.
Edgell, Homer Lee	*Leavenworth, Kans.*	C.E.
Edwards, Theodore	*Milwaukee*	M.E.
Eggler, Aloys Albert	*Dundee, Ill.*	E.E.
Ehlers, George Milton	*Milwaukee*	Ch.E.
Ehrlinger, Henry Phillip	*Park Ridge, Ill.*	Min.E.
Ekstrom, Dean Bernard	*Superior*	M.E.
Elmer, Harry Bert	*Lomira*	M.E.
Esterline, Merrill Brown	*Indianapolis, Ind.*	Ch.E.
Evensen, Eugene Lawrence	*Milwaukee*	C.E.
Ewens, James Joseph	*Milwaukee*	Min.E.
Eyer, Claude Wesley	*Glendive, Mont.*	Ch.E.
Fabera, Wenzel	*Manitowoc*	M.E.
Fairman, Floyd Irving	*Brodhead*	E.E.
Feldt, Harvey Alvin	*Monroe*	M.E.
Ferris, James Wylie	*Milwaukee*	M.E.
Field, George Hansen	*Racine*	C.E.
Finlayson, Robert Edward	*Superior*	C.E.
Finnel, Albert George	*Marinette*	Ch.E.
Finnemore, Harold Bart	*Baron*	E.E.
Fisher, Robert Ray	*Oregon*	E.E.
Fleishauer, Wayne Ralph	*Arkansaw*	E.E.
Foland, Raymond	*Lancaster*	Ch.E.
Forbes, Fabian Josire	*Kenosha*	E.E.
Forbes, Harley Walker	*Rhinelander*	E.E.
Fosbinder, Russel John	*Dodgeville*	Ch.E.
Foster, Loren H.	*Madison*	M.E.
Francis, Chester Jenny	*Albany*	C.E.
Franks, John Edwin	*Fremont, Ohio*	C.E.
Froehlig, Rudolph A.	*Milwaukee*	Ch.E.
Gates, Harry Dwight	*Mauston*	C.E.
Gauper, Carlson Dee	*La Crosse*	E.E.
Gehrand, Robert Ransom	*Madison*	C.E.
Georg, Walter Herbert	*Fond du Lac*	M.E.
Gettelman, Arthur Frederick	*Onalaska*	E.E.
Geise, Lawrence Fred	*Alma*	E.E.
Giles, William Ralph	*Madison*	Ch.E.
Gilling, Earl Arthur	*Green Bay*	M.E.
Gonzenbach, Ernest Albert	*Sheboygan Falls*	C.E.
Gramm, Anthony Frank	*Mount Horeb*	E.E.
Greene, Ford	*Madison*	M.E.
Grimstad, James Marion	*Mount Horeb*	E.E.
Groth, Leslie Albert	*Madison*	E.E.
Guettler, Robert Oscar	*Milwaukee*	Ch.E.
Haack, Arno John	*Lancaster*	E.E.
Haas, Raymond George	*Burlington*	M.E.
Haase, Harold Fredreck	*Milwaukee*	Ch.E.
Hackbarth, Clarence Gilbert	*Wausau*	E.E.
Haller, Marvin Arthur	*Hortonville*	E.E.
Hammatt, Abram Crosby	*Topeka, Kans.*	M.E.
Handberg, Fred William	*Ely, Minn.*	M.E.

Hansen, Albert Chester	*Whitewood, S. Dak.*	C.E.
Harms, Layton Royal	*Milwaukee*	C.E.
Harris, Hallett Jacob	*Cuba City*	C.E.
Hathaway, Gilbert Pierce	*Wauwatosa*	E.E.
Haugh, Earl Wood	*Baraboo*	E.E.
Hawkes, Russell Burnet	*Oconto*	E.E.
Hegeler, Edward C.	*Danville, Ill.*	M.E.
Heise, Lorenz William	*Green Bay*	M.E.
Hendricks, Meredith Sherwood	*Ingleside, Ill.*	E.E.
Hering, Oswald Harmening	*Mountain Home, Idaho*	Min.E.
Herzog, Harold Herman	*Kenosha*	C.E.
Hickok, Neil Robert	*Madison*	M.E.
Hill, Frederick George	*Valders*	C.E.
Hitchins, Owen Stanhope	*Waterloo, Iowa*	M.E.
Hockings, Clarence Everett	*Burlington*	E.E.
Hoebel, Harold Fredrick	*Madison*	E.E.
Hoefert, Arthur C.	*Juanita, N. Dak.*	E.E.
Hoeper, Howard Peck	*Wausau*	C.E.
Hogan, Harland Orville	*Madison*	E.E.
Holberg, Stanley Arthur	*Wisconsin Rapids*	C.E.
Holmes, Hubert German	*Beloit*	E.E.
Holt, Clayton Merrill	*Cambridge*	Ch.E.
Holub, Edward	*Boyd*	E.E.
Holzhaeuser, Elmer Louis	*Milwaukee*	Ch.E.
Hopkins, Leland Sumner	*Redfield, S. Dak.*	M.E.
Hotchkiss, Theodore Carroll	*Elkhorn*	M.E.
Howe, Frederick Emulus	*Evansville*	M.E.
Hrubecky, George Francis	*Neenah*	Ch.E.
Hubbard, Thomas Norville	*Detroit, Mich.*	C.E.
Hudson, Leslie John	*San Nicolas, Argentine, S. A.*	Ch.E.
Hulsether, Melvin Theodor	*Viroqua*	E.E.
Hunt, Kenneth Edward	*Weyauwega*	E.E.
Ihrig, Donald Green	*Waukesha*	E.E.
Jacobson, Oliver Mathews	*Burlington*	Min.E.
Jardine, James Beverly	*Madison*	C.E.
Jedeka, Lloyd Willard	*Racine*	M.E.
Jensen, Harold William	*Madison*	C.E.
Johnson, Arthur Oliver	*Madison*	M.E.
Jones, Edson Gobar	*Madison*	M.E.
Jones, Henry Grady	*Greenville, Tex.*	M.E.
Juhl, Martin Ellis	*Ashland*	E.E.
Kamm, Kermit Albert	*Madison*	E.E.
Kapitzke, Allen Emil	*Weyauwega*	E.E.
Kells, Stephen Avery	*Oconomowoc*	E.E.
Ketelpohn, Alfred Hugo	*Fall River*	C.E.
Kingston, Russel Lenard	*Marinette*	E.E.
Kistner, Russell Mathias	*Elkhart, Ind.*	C.E.
Kleucker, Wallace Harry	*Madison*	Ch.E.
Klinefelter, Marlow Dittmer	*Deerfield*	Min.E.
Kloser, George Gus	*Cassville*	Min.E.
Knutson, Clarence Ernest	*Park Falls*	E.E.
Kreimann, Erwin Henry	*Kiel*	M.E.

Krohn, Howard Gustav	*Whitewater*	E.E.
Kreuger, Richard Edward	*Horicon*	E.E.
Kubista, William Richard	*Madison*	Ch.E.
Kuhe, Harry	*Hubbard Woods, Ill.*	Ch.E.
Kuhnen, Curtis William	*Dixon, Ill.*	C.E.
LaBerge, William Gustave	*Chicago, Ill.*	M.E.
Lallier, Paul Randall	*Madison*	E.E.
Landwehr, Waldemar John	*Sheboygan*	C.E.
Lange, Herbert William	*Watertown*	M.E.
LaPour, Milton Francis	*Racine*	E.E.
LeRoux, Russell Jacob	*Port Edwards*	E.E.
Lathers, Victor Matthew	*Beloit*	C.E.
Leaf, Arthur Walfrid	*Marinette*	M.E.
Leisch, Frederick Krisch	*Portage*	E.E.
Lhotak, Ferd Rudolph	*Beloit*	M.E.
Lindbergh, Charles Augustus	*Madison*	M.E.
Lindner, Clement P.	*Prairie du Chien*	C.E.
Linsangan, Leon Villajuan	*Gapan, P. I.*	M.E.
Lloyd, C. Herbert	*Milwaukee*	M.E.
Lonergan, George	*Darlington*	Ch.E.
Lonergan, Roy Hafer	*Milwaukee*	C.E.
Longsdorf, Lisle Leslie	*Arkansaw*	C.E.
Ludden, Charles Franklin	*Mineral Point*	E.E.
Lyons, Edward Eugene	*La Crosse*	M.E.
MacDonald, William Hersly	*Green Bay*	E.E.
McLeish, Kenneth Clinton	*Merrimack*	C.E.
McLeod, Gordon Morrison	*Crory, N. Dak.*	E.E.
Manthey, Frank Richard	*Antigo*	E.E.
Mantz, Henry James	*Plymouth*	C.E.
Maresh, Frank	*Carrollville*	Ch.E.
Marrero, Isidro, Jr.	*San Juan, Porto Rico*	Ch.E.
Martin, Clarence Fred	*Oshkosh*	E.E.
Martin, William Reuben	*Dodgeville*	E.E.
Marx, Carl Henry	*Racine*	E.E.
Mason, Joseph Bigsby	*Niagara*	C.E.
Matheson, Donald McGreg	*Elkhorn*	Min.E.
May, Carl William	*Burlington*	E.E.
Meacham, Paul Russell	*Sparta*	C.E.
Mecartney, Earl Newell	*Hinsdale, Ill.*	Ch.E.
Meill, Otto Hans	*New Holstein*	M.E.
Meyers, Robert Milton	*Madison*	E.E.
Miles, Palmer Henry	*Arkansaw*	E.E.
Miller, Erwin John	*Beaver Dam*	Ch.E.
Mina, Patricio Urro	*Magsingal, P. I.*	E.E.
Moe, Senius Norman	*Crandon*	C.E.
Moldenhauer, Oscar Arthur	*Juda*	E.E.
Moore, Robert Humphrey	*Chicago, Ill.*	E.E.
Merhoff, Elroy John	*Middleton*	E.E.
Morrow, William John	*Kenosha*	Ch.E.
Muehlenbruch, Alfred Theodore	*Manitowoc*	M.E.
Mueller, Lloyd Reed	*Milwaukee*	Ch.E.
Muir, Kenneth Lynn	*Arcadia*	C.E.
Musselman, Morse Monroe	*Madison*	E.E.

Nelson, Robert Morris	*Edgerton*	C.E.
Newett, Alexander John	*Cicero, Ill.*	Ch.E.
Newman, Chad Gilbert	*Janesville*	Min.E.
Newman, Russell A.	*Kinderhook, Ill.*	C.E.
Niederman, Philip Henry	*Milwaukee*	Ch.E.
Novakovich, Stephen	*Milwaukee*	M.E.
Nuesse, Elmer Carl	*Milwaukee*	E.E.
Oakey, Robert Henry	*Madison*	M.E.
Oehmcke, John Richard	*Milwaukee*	E.E.
Olmsted, Alexander Edward	*Green Bay*	E.E.
Olson, Charles Alfred	*Madison*	M.E.
Opitz, Herbert C.	*Elkhorn*	M.E.
Ortega, Durian Manuel	*Ronda, Spain*	Ch.E.
Otis, Russell Clark	*Oshkosh*	E.E.
Ottison, Otto Carl	*Racine*	E.E.
Paasch, George William	*Plymouth*	E.E.
Palen, Vernon Walser	*Sparta*	E.E.
Panosh, Roy William Adolph	*Kewaunee*	E.E.
Parr, Merl Wayne	*Charles City, Iowa*	E.E.
Pederson, Silas Clarence	*Ettrick*	E.E.
Pelegrin, Leslie Joseph	*Suamico*	C.E.
Pelnar, Alfred Wayne	*Madison*	Min.E.
Peters, Linus Martin	*Crandon*	C.E.
Petersen, Edwin Scott	*Chicago, Ill.*	Ch.E.
Petersen, Edward William	*Kenosha*	C.E.
Peterson, DuWayne John	*Dodgeville*	E.E.
Peterson, George Raymond	*Odanah*	E.E.
Phelps, Ivan	*Albany*	C.E.
Pierce, Rolfe Conroy	*Evansville*	Ch.E.
Piltz, John	*Rudolph*	C.E.
Plaenert, Alfred Bernard	*Madison*	M.E.
Pollard, Millard Albert	*Lannon*	M.E.
Pratt, Howard John	*Madison*	E.E.
Prideaux, Donald Williams	*Dodgeville*	E.E.
Priess, Harold Edwin	*St. Louis, Mo.*	C.E.
Prunuske, Anthony George	*Menasha*	Ch.E.
Ramsay, Russell Bernard	*Morrisonville*	E.E.
Ramsett, George Wellington	*Viroqua*	E.E.
Reese, David Bayard	*Madison*	M.E.
Reinke, Oscar Alfred	*Aniwa*	Ch.E.
Reynolds, Harry Lawrence	*Sparta*	C.E.
Rhode, Richard Valentine	*Kenosha*	M.E.
Richtmann, William Muir	*Madison*	M.E.
Rick, Norman Andrew	*Wausau*	C.E.
Ricketts, Thayer Hibler	*Madison*	M.E.
Riddell, George Alexander	*Sheboygan*	E.E.
Rieck, Irwin John	*Weyauwega*	E.E.
Ritchie, Russell Erwin	*Ashland*	E.E.
Robb, Carroll Elbridge	*La Crosse*	C.E.
Robertson, John Fulton	*Horicon*	M.E.
Rockwood, Edgar Lysle	*Two Rivers*	E.E.
Rodder, Carl	*Oconomowoc*	C.E.
Rudolph, Roman Charles	*Saukville*	M.E.

Rundell, Edward Bacon	*Madison*	C.E.
Rutherford, Marvin Hughitt	*Lake Mills*	C.E.
Saltzstein, Irving David	*Milwaukee*	C.E.
Sanner, Harold Alvin	*Beloit*	E.E.
Sawtelle, Rolfe Bigelow	*Madison*	C.E.
Saxton, Dunbar Theodore	*Waupun*	E.E.
Schmidt, Eugene Albert	*Milwaukee*	C.E.
Schmidt, Herbert William	*Wauwatosa*	M.E.
Schmidt, Raymond Carl	*Madison*	Ch.E.
Schnackenberg, Lee Judson	*Madison*	E.E.
Schrank, Joseph Michael	*Ashland*	M.E.
Schroeder, Louis Lawrence	*Milwaukee*	E.E.
Schultz, Roy Louis	*Lomira*	M.E.
Schwantz, Francis Walter	*Madison*	E.E.
Sellick, John Mayhew	*Berryville, Ark.*	E.E.
Shafratt, Clarence Willard	*Mazomanie*	E.E.
Shepherd, Loren Francis	*Platteville*	Min.E.
Sherburne, Henry Clement	*Fremont*	C.E.
Sheridan, Richard	*Oconomowoc*	M.E.
Shimanski, Victor Edward	*Racine*	M.E.
Shockey, Charles Francis	*Green Bay*	E.E.
Shoemaker, William Turner	*Philadelphia, Pa.*	M.E.
Silver, Harold Squier	*Wauwatosa*	E.E.
Simpelaar, Clyde Sterling	*Milwaukee*	M.E.
Sindt, Erwin Jacob	*Davenport, Iowa*	Ch.E.
Six, Norman Frank	*Logansport, Ind.*	C.E.
Smallshaw, James	*Milwaukee*	C.E.
Smith, Harold George	*Green Bay*	M.E.
Smith, Hiram Bowen	*Madison*	E.E.
Smith, Lester Joseph	*Combined Locks*	M.E.
Smith, Millard Beale	*Wauwatosa*	C.E.
Smith, Ralph Albert	*Wauwatosa*	C.E.
Solveson, Lester Merwin	*Rubicon*	C.E.
Spero, Victor Philip	*Milwaukee*	Min.E.
Stafford, Arthur	*Mountain Home, Idaho*	E.E.
Stedman, Robert Hollis	*Sturgeon Bay*	C.E.
Stehling, Ralph Joseph	*Milwaukee*	M.E.
Stiehm, Floyd Manerd	*Johnson Creek*	E.E.
Stipek, Raymond Joseph	*Glendive, Mont.*	E.E.
Strassburger, Erich William	*Kohler*	C.E.
Stuart, Delbert Erastmus	*Monroe*	M.E.
Sykora, Jerry George	*Batavia, Ill.*	C.E.
Taylor, William Russell	*Milwaukee*	C.E.
Teckemeyer, Oscar William	*Madison*	M.E.
Tews, Roland Roy	*Milwaukee*	M.E.
Thayer, Harry Curtis, Jr.	*Chicago, Ill.*	E.E.
Thieman, Vincent Aloysius	*Baraboo*	Ch.E.
Thomas, Cleo Whitney	*Kenosha*	E.E.
Thomas, Donald T.	*West Allis*	E.E.
Thomas, Robert McKee	*Madison*	M.E.
Thompson, John Gordon	*St. Croix Falls*	C.E.
Tickfer, Lester John	*Belfield, N. Dak.*	E.E.
Trier, Robert Joseph	*Fond du Lac*	C.E.

Uehling, Edwin Albrecht	*Lowell*	E.E.
Urabec, Frank	*Sheboygan*	E.E.
Usher, Margo	*Stoughton*	C.E.
Usilton, Eric Albert	*Madison*	E.E.
Vaile, Joe Edwin	*Kokomo, Ind.*	Ch.E.
Valdivia, Pedro Roman	*Guadalajora, Mex.*	Ch.E.
Van Doren, Kenneth Reed	*Birnamwood*	E.E.
Vergenz, Martin Henry	*Johnson Creek*	E.E.
Voedisch, Frederic William	*Aberdeen, S. Dak.*	C.E.
Vollrath, Bernard Henry	*Greenwood*	E.E.
Waffle, Nathan Lowell	*Fond du Lac*	E.E.
Waldvogel, Elmer Alfred	*Wisconsin Rapids*	M.E.
Walker, Samuel Burton	*Racine*	Ch.E.
Warren, William Bird	*Madison*	Ch.E.
Wasmansdorff, Carlton	*Lewiston, Mont.*	Ch.E.
Watts, Lyle Curtis	*Lomira*	M.E.
Webb, Robert Barton	*Milwaukee*	C.E.
Welker, Clarence	*New Holstein*	E.E.
Wheeler, David Eastwood	*Lake Forest, Ill.*	M.E.
Wheeler, Ralph Gilbert	*Pepin*	Ch.E.
Whiting, Walter Freeman	*Brandon*	C.E.
Widder, Joseph Carl	*Sheboygan Falls*	M.E.
Wienke, Arthur Robert	*Beloit*	C.E.
Wiese, Arno Mueller	*Davenport, Iowa*	E.E.
Wiggers, George Edward	*South Kaukauna*	Min.E.
Wiggin, Arthur Louis	*Plymouth*	C.E.
Wilson, Thomas Blair	*Menominee*	M.E.
Wolf, Allen Eloyd	*Waseca, Minn.*	E.E.
Wood, Victor C.	*Racine*	M.E.
Woodward, George Stedman, Jr.	*Norwood, Ohio*	M.E.
Wooldridge, Kent Edward	*Fond du Lac*	E.E.
Yahn, Arthur John	*Janesville*	Min.E.
Yehle, Robert Ralph	*Florence*	E.E.
Ziegler, Theodore Fred	*Appleton*	M.E.
Zschaechner, Walter Otto	*Appleton*	C.E.
Zufelt, Jerome Crosby	*Sheboygan*	C.E.
Zuill, Chester Grove	*Monroe, S. Dak.*	E.E
Zwicker, Ralph Wise	*Madison*	C.E.

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Adult Specials

Bellew, Edgar Thomas	*Appleton*	Ch.E.	Sophomore
Branks, Joseph Orin	*Janesville*	M.E.	Junior
Engelhardt, Elmer Earl	*Kenosha*	M.E.	Freshman
Fensel, Alden Charles	*Milwaukee*	C.E.	Junior
Hance, Willard Bell	*Freeport, Ill.*	M.E.	Sophomore
Holm, Clarence Carlisle	*Madison*	Min.E.	Sophomore
Johnson, Arthur Edward	*Superior*	E.E.	Sophomore
Luening, Robert Louis	*Oconomowoc*	Ch.E.	Junior
Michael, John Hadji	*Neenah*	E.E.	Sophomore
Naujoks, Waldemar	*Milwaukee*	M.E.	Sophomore

Nelson, Elmer Harry	*Racine*	E.E. Freshman
Purdy, Corydon Phillips	*Monroe, N. Y.*	E.E. Sophomore
Randolph, Charles Hollis	*Milwaukee*	M.E. Sophomore
Roller, August Frank	*Sun Prairie*	E.E. Sophomore
Wong, Joe Him	*Madison*	Min.E. Freshman

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LAW SCHOOL

Third Year

Baird, Austin Joseph, B.A.	*Waukesha*
Beckwith, David Van Walter	*Madison*
Bernard, John	*Superior*
Boardman, Newell Stephen	*New Richmond*
Crocker, Calvin Otis	*Wausau*
Davis, Dudley Hopkins	*Madison*
Dornbrook, Percy Fred	*Menasha*
Egan, Timothy Frank	*Hurley*
Ellis, Robert Borden	*Rockford, Ill.*
Fox, Harry Sigmund, B.A.	*Janesville*
Genrich, Fred William, Jr.	*Wausau*
Hall, Lawrence Waterbury, B.A.	*Madison*
Hansen, Lambert Anthony	*Cashton*
Hanson, Harold Eugene	*Madison*
Hoyer, Edward Ludwig Frederick	*Madison*
Hyzer, Leland, B.A.	*Janesville*
Immell, Ralph Maxwell	*Madison*
Jenks, Walter Thomas	*Platteville*
Kaminsk, Edith	*Philadelphia, Pa.*
Kearns, Edward Peter, B.A.	*Madison*
Keller, Gustave Joseph	*Appleton*
King, Marvin Stephen, B.A.	*Madison*
La Follette, Philip Fox, B.A.	*Madison*
Lathrop, William, B.A.	*Madison*
Lennon, George William, B.A.	*Portage*
Loverud, Alvin Matthew, B.A.	*Stoughton*
Lowry, Howard James, Ph.B.	*Colfax*
McCann, Ray Thomas, B.A.	*Edgerton*
Morsell, Curtis Benedict	*Milwaukee*
Nesbitt, John Leonard	*Oxford*
Newton, Orin Isaac	*Sparta*
Peterson, Carl Edwin, B.A.	*Menomonie*
Pollard, Seth Whitely	*Lannon*
Potter, Ellis David, B.A.	*Madison*
Rasmussen, Vilas Lenor, B.A.	*Oconomowoc*
Roberts, Glenn D.	*Sparta*
Ryan, Stanley Martin	*Janesville*
Smalley, Gwynette Ellsworth, B.A.	*Cuba City*
Spohn, George Daniel, B.A.	*Janesville*
Steele, Fred Edward, B.A.	*Melvina*

Strassburger, Albert Emmanuel, B. A.	*Oshkosh*
Tyrrell, Richard Hanlon	*Lake Geneva*
Van Pelt, Clayton Forrest	*Fond du Lac*
Wehmhoff, Rowland Henry, B.A.	*Burlington*
Wheeler, Warren Gregg	*Wauwatosa*
Whelan, Allen	*Mondovi*

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Second Year

Amlie, Thomas	*Cooperstown, N. Dak.*
Bareis, Charles John	*Platteville*
Barr, Wallace André	*Milwaukee*
Blume, Henry Martin	*Milwaukee*
Bonesteel, Wendell	*Huron, S. Dak.*
Bonnin, Chris Henry	*Shawano*
Borgelt, Edward Hubert	*Milwaukee*
Bundy, Egbert Bird	*Eau Claire*
Bunge, George Christian Is	*La Crosse*
Cadigan, Charles Patrick	*Superior*
Charney, Sydney Clyde	*Milwaukee*
Crocker, Walter Clair, Jr.	*Spooner*
Daley, Carl Harry	*Superior*
Darling, Lorenzo Lyman Is	*Madison*
Dunn, Lawence Brewster	*Appleton*
Engelhard, Aloysius John	*La Crosse*
Federer, Leo Joseph	*Waukesha*
Fortune, William Peter, Jr., B.A.	*Springfield, Ill.*
Fosgate, Frank Pilling	*Richland Center*
Garrigan, George Arthur, B.A.	*Beloit*
Grady, Emory Lester, M.C.S.	*Watertown*
Greco, Charles	*Madison*
Hahn, Wallace Herbert	*Milwaukee*
Hart, Lawrence Eugene	*Mauston*
Heft, Carroll Rahn	*Racine*
Holscher, Herbert Frederick Is	*McFarland*
Hopkins, Joseph Jackson	*Milwaukee*
Hughes, Clarence Joseph	*Superior*
Johnson, Guy Arthur, B.A.	*Suring*
Krebs, George John, B.A.	*Fort Atkinson*
Kuehl, Frank William, B.A.	*Fountain City*
Lichtenwalner, Ray Peter	*Monroe*
Mathys, Clifford George, B.A.	*Arcadia*
Nelson, Frederick Washington, B.A.	*Racine*
Neubauer, Harold Raymond	*Madison*
Oakey, Henry Cooper	*Osceola*
Paul, Harold Henry	*Milwaukee*
Paulsen, Martin Raymond	*Madison*
Pett, Ernest Herman, B.A.	*Johnson Creek*
Pleck, Joseph Harold, B.A.	*Sturgeon Bay*
Powers, Patrick Gerald, Ph.B.	*Madison*
Rider, Jay Merle	*Rockford, Ill.*

Roberts, Arthur Owen	*Superior*	
Rohr, Charles Davis, B.A.	*Burlington*	
Roswell, Herbert Solveson, B.A.	*Oconomowoc*	
Scheinfeld, Aaron	*Milwaukee*	
Schenk, Edward William	*Shawano*	
Seibold, Fred Carl, B.A.	*Camp Douglas*	
Smith, Harold Claire	*Jefferson*	
Torphy, Bryan Michael	*Milwaukee*	
Towell, Arthur	*Milwaukee*	
Wegener, James Hugo, B.A.	*Marshfield*	
Wiley, Robert LeRoy	*Chippewa Falls*	
Williams, Walter Arthur, B.A.	*Green Bay*	
Zielsky, Frederick Adelbert	*South Shore, S. Dak.*	—55

First Year

Ahlstrom, Roy Victor	*La Crosse*
Albertz, Max Henry, M.A. g	*Watertown*
Anderson, Rudolph	*Superior*
Arnold, Lyman Kent	*Madison*
Arnold, Suel Orr	*Madison*
Becker, Paul Gustav	*Wilmont, Minn.*
Belknapp, Jamie Ray	*McIntosh, S. Dak.*
Best, Lon Brewer	*Downing*
Blum, Bruce Marty, B.A.	*Monroe*
Bogle, Mord M.	*Kansas City, Mo.*
Brewington, Russell Dumas	*Madison*
Brown, Lloyd Joseph	*Madison*
Callahan, Kevin John	*Montello*
Christianson, Carl	*Deerfield*
Christianson, Oscar, B.A.	*Beloit*
Collipp, William T. Fulton	*Portage*
Conley, Paul Bernard	*Darlington*
Cooper, Claude Fennimore	*Superior*
Cosgrove, Frank William	*Fond du Lac*
Dahl, A. Walter	*Superior*
Dopp, James Lawrence	*Wild Rose*
Douglas, James Lee M.A. g	*Madison*
Draeb, August Edward	*Sturgeon Bay*
Ferris, Walton Canby	*Milwaukee*
* Filbey, Arthur Hawthorne, B.A.	*Fond du Lac*
Fischer, Lyman Frank	*Two Rivers*
Fitzgibbon, James Maurice	*Monroe*
Fritschler, John Curtis	*Sturgeon Bay*
Frye, Miriam Louise, B.A. g	*Madison*
Hartwig, Harold William	*Watertown*
Heassler, Alton Sprecher	*Madison*
Hiken, Charles	*Milwaukee*
Hooker, Edward Wight	*Waupun*
Huber, Frederick Dale	*Ellsworth*
Janisch, William Jennings Bryan	*Waterloo*

* Ripon College Scholar.

Jones, Russell Phillips	*Edgewood, R. I.*	
Karon, Morris	*Superior*	
Kenney, Elizabeth Jane	*Palo Alto, Cal.*	
Keys, Roland Benjamin	*Richmond, Ind.*	
Kileen, Roy Edward	*Wautoma*	
Kilness, Gideon Waldemar	*Dell Rapids, S. Dak.*	
Kletzien, Elmer Abraham	*New Holstein*	
Knudson, Sidney	*Sturgeon Bay*	
Korth, Earl Adelbert	*Eagle River*	
MacIntyre, Darrell Donald	*Avoca*	
Macomber, Stephen Decatur	*New Lisbon*	
Mansfield, Herbert Stanley e	*Okauchee*	
Martineau, John Baptiste	*Oshkosh*	
Meyer, Eugene Paul	*Milwaukee*	
Moroney, John Rodgers, B.A.	*Dallas, Texas*	
Mosher, Herman Alexander	*Milwaukee*	
O'Neil, Daniel Callahan	*Chippewa Falls*	
Park, Allan Lamoreaux	*Stevens Point*	
Paulsen, Paul Hillward	*Stevens Point*	
Pellow, Chauncey James, B.A.	*Mineral Point*	
Persons, Harold Hopkins	*Janesville*	
Petterson, Walter Haastropp	*Ephraim*	
Porter, Emery John, B.A.	*Mukwonago*	
Preus, Ove Jacob Hjort, J.D. g	*De Forest*	
Retzer, John Porter	*Milwaukee*	
Reynolds, Thomas Arthur	*Madison*	
Schenk, Gustave Paul	*Shawano*	
Schmidt, Herman Arthur	*Columbus*	
Sells, Arthur Max	*Florence*	
Seymour, William Lester	*Oshkosh*	
Sharp, Fern Eugene, B.A. g	*Edgewood, Iowa*	
Slagg, Lowell Silverwood	*Edgerton*	
Slagg, Stanley Wilmer	*Edgerton*	
Sniffen, Allan Burr	*Madison*	
Stephens, Dwight Sheldon	*Cuba City*	
Story, Byron Ferris	*Bozeman, Mont.*	
Sutton, Merritt Leofurn a	*Clinton, Iowa*	
Thomann, Emily Wangard, B.A.	*Madison*	
Thompson, John Reginald	*Madison*	
Thorson, Arthur Thomas	*Eau Claire*	
Walczak, Bruno	*Milwaukee*	
Walker, Beatrice Lampert	*Madison*	
Werner, Victor Davis	*Shawano*	
Williams, Hugh Glynn	*Racine*	
Zorbaugh, Grace S. McClure, M.A. g	*Cleveland, Ohio*	—80

Law Specials

Bancroft, Blaine DeLap	*Richland Center*	First Year
Barrett, Albert Charles	*Chippewa Falls*	Second Year
Blomberg, Arvid Bernard	*Ogema*	First Year
Braathen, Sverre Oliver	*Madison*	Second Year
Cullen, James Patrick	*Boscobel*	First Year

Fisher, Walter Stanley	*Minocqua*	Third Year
Flood, A. Patrick	*Waco, Texas*	Second Year
Gilbertson, Robert Leonard	*Eau Claire*	Second Year
Healy, Caroline Marie	*Orlando, Fla.*	First Year
Heney, Michael James	*Green Bay*	Second Year
Hof, Gus Paul	*Boscobel*	Second Year
Langer, Joseph Silvester	*Kewaunee*	Second Year
Mikkelson, Carl Francis	*Arkdale*	Third Year
Molzow, Reinhold	*Beaver Dam*	Third Year
Paul, Emery Marvin	*Princeton*	First Year
Runge, Herman Carl Is	*Sheboygan*	Third Year
Schwellenbach, Edgar Ward	*Superior*	First Year
Taggart, Sturgis Phoenix	*Lake Geneva*	Third Year
Thomas, Henry	*Mason City, Iowa*	First Year
Tollund, Martin Almer	*Blue Mounds*	Third Year
White, Adeline	*Madison*	First Year
Wolff, Herman William	*Jefferson*	First Year
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Students in Letters and Science Electing Law

Alschuler, Jacob Edward	*Aurora, Ill.*
Ansfeld, Arnold Joseph	*Milwaukee*
Axley, Ralph Emerson	*Seymour*
Bruns, Bernice Lillian	*Plymouth*
Crowley, Robert John	*Janesville*
Doerfler, Frederick	*Wauwatosa*
Fitch, Logan Dallas	*Madison*
Friedrich, Paul Edmond	*St. Charles, Mo.*
Gregg, Ashton Carter	*Decorah, Iowa*
Hawley, William Emery	*Baldwin*
John, Frederic Charles	*Milwaukee*
Jones, Enos Gray	*Sioux Falls, S. Dak.*
Katowitz, Harry James	*Kenosha*
Kraege, Frederick Halsey	*Madison*
Kriewaldt, Martin Rudolf	*Lameros, So. Australia*
Lepkovsky, Charles Albert	*Kenosha*
Marshall, Thomas George	*Belvidere, Ill.*
Martineau, Thomas Burgoin	*Oshkosh*
Meyer, Adeline Josephine	*Madison*
Morse, Wayne Lyman	*Madison*
Reitan, Rudolph Norman	*Bonduel*
Risser, Frederic	*Fountain City*
Shapiro, Herman Joseph	*Madison*
Siebert, Frederick Seaton	*Mount Iron, Minn.*
Sims, Leslie Clinton	*Rice Lake*
Smith, Herbert Herald	*Milwaukee*
Sygman, Samuel	*Two Rivers*
Thompson, John Cameron	*Oshkosh*
Trowbridge, Frederick Newell	*Viroqua*
Weisman, Jacob Mathew	*Racine*
Welsh, Rodney Costello	*Madison*
Wible, Herbert Lloyd	*Elm Grove* —32

COLLEGE OF AGRICULTURE

Long Course

Seniors

Ahrens, Harvey Gerald se	*Two Rivers*
Ash, Elza Glenn	*Harristown, Ill.*
Baker, Oscar Roland	*St. Croix Falls*
Barry, Lawrence Griffith	*Oconomowoc*
Bloecher, William	*Wittenberg*
Boerner, Robert Louis Stevenson se	*Port Washington*
Bollinger, John Romeo	*Cochrane*
Bond, Eugene Howard se	*Milton*
Brobst, Merrill Francis	*Mondovi*
Brown, Maurice Austin	*Sturgeon Bay*
Burgos, Carlos Xerez	*Manila, P. I.*
Byrne, Charles David	*Oregon*
Carlson, Theodore Ephraim	*Superior*
Casperson, Helmer Cornelius se	*Baldwin*
Chapman, Homer Dwight	*Darlington*
Cleasby, Elwood William	*Eleva*
Duffin, Laurel Ardien	*Whitewater*
Dunwiddie, Leon Foster se	*Delavan*
Ebling, Walter Henry	*Richfield*
Edwards, Harry Lloyd se	*Cambria*
Edwards, Max J.	*Belleville*
Gerhardt, Oscar Henry	*Neillsville*
Gray, Wellsley Dobson	*Madison*
Hammen, Edwin George se	*Ripon*
Harris, Forest Datus se	*Cuba City*
Heebink, Gerald	*Baldwin*
Helwig, Karl Lyle	*Danbury*
Hewett, Walter William	*Arlington, S. Dak.*
Holzbog, Walter Charles	*Wauwatosa*
Horne, Daniel Otto	*Stevens Point*
Hsu, Chen Chow	*Hangchow, China*
Hughes, Idrys Oralend	*Platteville*
Jacobson, Alvin Myron se	*Richland Center*
Jacobson, Jacob R.	*Madison*
Jones, Arthur Lyle se	*Madison*
Juday, Dean James	*Rhinelander*
Kaasa, Leonard Jerome se	*Merrill*
Katz, Henry Joseph	*Milwaukee*
Knoll, Roy Phil	*South Milwaukee*
Knutson, Arthur Magnus	*Sawyer*
Koch, William Frederick	*West Point, Nebr.*
Kozelka, Adolph William se	*Mishicot*
Kozelka, Frank Ludwig	*Mishicot*
Kuckuk, Harold Morse se	*Wausau*
Keuhn, Edwin Frederick William	*Burnett*
Kuehner, Conrad Louis	*Cedarburg*

Last, John August	*Watertown*
Lindegren, Carl Clarence	*Rhinelander*
Lindow, Carl Warning	*Elkhorn*
Link, Karl Paul	*La Porte, Ind.*
Lippitt, Minnie Henderson	*San Juan, Porto Rico*
Long, John Francis	*Westfield*
Lotz, James Aaron	*Cadott*
Lu, Hsieh Chun	*Wusih, Kiangsu, China*
Magistad, Oscar Conrad se	*Forestville*
Mahorney, Florence	*Madison*
Matteson, Lynn B.	*Clintonville*
Miller, Francis Charles	*LaFayette, Ind.*
Mitchell, Roger David	*Beloit*
Moorhead, Douglas McCord	*Moorheadsville, Pa.*
Munkwitz, Richard Charles	*Edgar*
Opgenorth, Louis Theodore	*Kewaskum*
Pabst, Frederick August	*Oconomowoc*
Peacock, Benjamin Noyes	*Big Bend*
Petersen, Frank Roy	*Berlin*
Portman, Leo James	*Ladysmith*
Price, Edward Ernest se	*Mauston*
Priewe, Elmer Clarence	*Orangeville*
Pusey, Ernest Nuckols	*Bartles, Ky.*
Rankin, Eugene Joseph	*Appleton*
Rewey, Oliver Wendell	*Madison*
Roewekamp, Fred William	*Oshkosh*
Ruff, Clarence Amil	*Gilmanton*
Runkel, Clay Orson	*Madison*
Russell, Eldon Babcock	*Madison*
Schernecker, Edward George	*Madison*
Schueler, Milford William se	*Fredonia*
Schultz, William Walter	*Barron*
Sharp, Manley se	*Evansville*
Spear, Byron Hoyt se	*Pardeeville*
Splitgerber, Albert Herman se	*Waterloo*
Stearns, Russell Benjamin	*Madison*
Stewart, John Elden Lee	*Spooner*
Sutton, Merritt Leofwin l	*Clinton, Iowa*
Taylor, Lewis Walter	*Milwaukee*
Tibbitts, John Wilson	*Melrose*
Watson, Eldon Levings	*Poynette*
Weavers, Harvey se	*Cedar Grove*
Weinman, Isaac	*New York, N. Y.*
Wells, William Alexander	*River Falls*
Wilson, Edward Malcolm	*Bayfield*
Wipperman, Arno Arthur se	*Cleveland*
Woelffer, Elmer August	*Watertown*
Woline, Ernst Wilhelm	*Cumberland* —94

Juniors

Albert, Willard Benjamin	*Madison*
Albertz, Arthur Otto	*Watertown*
Allison, Andrew Beardsley	*Durand*

Allison, Harold Arthur	*Madison*
Amborn, Lewis William se	*Genoa Junction*
Arbuthnot, George Larkin	*Janesville*
Austerud, Orin Johan	*Martell*
Bacchus, Thomas Walley	*Wilmington, Del.*
Baldwin, Harold Carlyle	*Green Lake*
Bean, Walter David	*De Soto*
Beier, Edwin Adolph	*Rockford, Ill.*
Bibelhausen, Roy Joseph	*Shawano*
Blodgett, Robert Oliver	*St. Paul, Minn.*
Bonsack, Clarence Herman se	*Onalaska*
Brace, Donald Ochsner	*Lone Rock*
Brown, Herbert Joseph	*Monroe*
Brown, Maynard Wilson	*Great Falls, Mont.*
Burkey, Lloyd Allen	*Buhl, Idaho*
Byrne, Basil Joseph	*Hazel Green*
Byrns, Elmer Dennis	*Madison*
Capel, James Barzella	*Milwaukee*
Castner, Russell	*Loyal*
Chew, Ned	*Pueblo, Colo.*
Comstock, Gilbert William	*Oshkosh*
Cook, Alonzo Charles	*Milwaukee*
Crow, Thomas William	*Platteville*
Dahl, Carl Arnold Sixten	*Superior*
Daniels, Thomas Richard	*Weyerhaeuser*
Dartnell, Thomas Lozier	*East Orange, N. J.*
Davis, John Stark	*Bowling Green, Ky.*
Dohrmann, Herbert Carl	*Mayville*
Ellis, Crawford Raw	*Endeavor*
Ellis, Lippert Spring se	*Madison*
Elmslie, Wallace Parker	*Milwaukee*
Elvehjem, Conrad Arnold	*McFarland*
English, Donald John	*Wyocena*
Fay, Ivan Glen	*Hayward*
Frederick, William Henry	*Milwaukee*
Fritschel, Roland Godfrey	*Milwaukee*
Gahr, Joseph Abraham	*Madison*
Geilfuss, Harvey William se	*Milwaukee*
Hamley, Gordon	*Ripon*
Haney, Merwyn Augustin	*Sparta*
Hickey, Pauline Gerling	*Madison*
Honaas, Alf	*Elk Mound*
Huff, Whitford Lynn	*Boscobel*
Jamison, Howard Elmer	*Appleton*
Jaquith, Clifford LaRoy	*Green Lake*
Johnson, Gustavus Emil	*Boyceville*
Jones, Willard Perry	*Black River Falls*
Kellum, Charles Reeve	*Camby, Ind.*
Kleinheinz, Frank Alexander	*Madison*
Klussendorf, Raymond Clarence	*Milwaukee*
Kohn, Frank Joseph	*Hika*
Kraft, Timothy Heller	*Madison*
Kutil, Clarence Leonard	*Manitowoc*

Langen, Bertram Byron	*Cincinnati, Ohio*
Levitz, Herman Hyman	*Wauwatosa*
McAleavy, Charles Joseph	*Ellsworth*
McConnell, Kenneth	*Sparta*
McKay, Frank Dowling	*Marinette*
Mallow, Lewis Campbell	*Madison*
Marvin, George Eugene	*West Allis*
Matteson, Roger Pitkin	*Chicago, Ill.*
Metcalf, Harold Harris se	*Merrill*
Meyer, Werner Paul	*Cedarburg*
Mills, Ashley Vail	*Lake Mills*
Mueller, Walter Josef	*Milwaukee*
Munro, Hugh Kennedy	*Cambridge*
Nimlos, Johnson Montgomery	*Madison*
Nisbet, John Cochrone	*Richland Center*
O'Connor, George McGregor	*Hancock*
Oechsner, Rudolph Arthur	*Oakfield*
Oosterhuis, Lester John	*Sheboygan Falls*
Pabst, Rudolf	*Oconomowoc*
Parmele, Harris Barnum	*Rockford, Ill.*
Paulus, Edward Joseph	*Princeton*
Perky, James Barney	*Oklahoma City, Okla.*
Peterson, Clarence Percival	*Greenwood*
Powell, Hector Menelaus	*Island Lake*
Pribyl, George John se	*Madison*
Ramsay, Wayne	*Madison*
Reeve, Edwin Allworth	*Western Springs, Ill.*
Rodolfo, Agustin	*South Antonio Zambales, P. I.*
Rogers, Howard Everett	*Hager City*
Sather, Erwin Humphrey	*Deer Park*
Sayre, Kenneth James	*Edgerton*
Sayre, Kitchell Phelps	*Edgerton*
Schuetz, Walter Edward	*Milwaukee*
Sellars, Sumner A.	*Mooresville, Ind.*
Skaife, Charles William	*Livingston*
Smith, Edward Magruder	*Chicago, Ill.*
Sprague, Ralph Jennings	*Eagle*
Stinchfield, Roswell Herrick	*Waupaca*
Stokstad, Olaf Lawrence	*Edgerton*
Stream, John Joseph	*Chicago, Ill.*
Stueber, Julius John	*Juneau*
Sykes, Robert Hart	*Milwaukee*
Taylor, Lloyd Raymond	*Rhinelander*
Templin, Edward Henry	*Baraboo*
Ternes, Albert Marcelles	*Ridgeway*
Thomas, Robert Cole	*Oak Park, Ill.*
Thorne, Alvin Leroy	*Milwaukee*
Van der Riet, Clement Merwyn	*Stellenbosch, South Africa*
Viste, Melvin Carl	*Sawyer*
Volk, Norman James	*Oconto Falls*
Voltz, Phillip William	*Madison*
Wade, Gerald Charles	*Wauwatosa*
Warren, Browning	*Eagle, Idaho*

Weber, Clarence Walter	*Sturgeon Bay*
Weber, Guido Leo	*Algoma*
Weed, Alfred	*Chicago, Ill.*
Whereatt, Kenneth William	*Superior*
Wolfe, Sheldon Redlin	*Madison*
Wolverton, Earl Martin	*Oshkosh*
Woodman, Catherine Tomlinson	*Wilmington, Del.*
Young, Vilas Devald	*Galesville*

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Sophomores

Berkman, Charlotte	*Yonkers, N. Y.*
Boughton, Elmer Chris	*Ashland*
Bunce, Elsworth William	*Milwaukee*
Butler, Richard	*Horicon*
Caldwell, Lester Earl	*Morrisonville*
Callenbach, Ernest William	*Virginia Beach, Va.*
Clark, Farnham	*Menomonie*
Clements, Harry Frank	*Coon Valley*
Colby, Harold Leslie	*Madison*
Corbett, Kenneth Hughes	*Appleton*
Crook, Jere Lawrence, Jr.	*Jackson, Tenn.*
Dahl, Stanley Gustaf	*Chicago, Ill.*
Davis, Erwin Frederic	*Rockford, Ill.*
Dennerlein, Arno Alfred	*Plymouth*
Derthick, Harold Guy	*Angleton, Texas*
De Vries, Arnold John	*South Madison*
Doyon, Bertrand Herrick	*Madison*
Edidin, Benjamin Morris	*Chicago, Ill.*
Eiseman, Charles	*Chicago, Ill.*
Erdmann, Herbert Hermann	*Milwaukee*
Fladoes, John Alvin	*Menomonie*
Flueck, Herbert Allen	*La Crosse*
Freeman, Philip Drew	*Hinsdale, Ill.*
Gregor, George Valentine	*Algoma*
Gunderson, Frank Lester	*Madison*
Haines, Oliver Thomas	*Sawyer*
Hastings, Barbara	*Atchison, Kans.*
Hayes, Birchard Platt	*Asheville, N. C.*
Heal, Byron Franklin	*Marshfield*
Iverson, Clarence Fred	*Kenosha*
Johnson, Alden Leslie	*South Wayne*
Jones, Scoggan	*Buechel, Ky.*
Keenan, Sidney Fox	*Madison*
Klare, Richard Henry	*Madison*
Klosterman, Adolph Henry	*Shawano*
Lathrope, Howard Roswell	*Wauzeka*
Lochaya, Nai Chuang	*Bangkok, Siam*
Longnecker, William	*Neillsville*
Matteson, Stephen Halsey	*Chicago, Ill.*
Mellor, Milton Edward	*Madison*
Mielke, Elmer Henry	*Brillion*
Mohr, Charles Alan	*Madison*
Murphy, Harold Edward	*Delavan*

Oertel, Everett	*Prairie du Sac*
Olson, Victor J.	*Blanchardville*
Oppel, William Wells	*Madison*
Orr, Ray Eugene	*South Wayne*
Osius, William Fred	*Plymouth*
Parmley, John Hahnemann	*Madison*
Pederson, Carl Severin	*Tunnel City*
Polivka, Joseph Bernard	*Coloma*
Powell, James Willard	*Milwaukee*
Price, Ferdinand Theodore	*Amherst*
Read, John Cherin	*Porter, Ind.*
Reinhold, John Gunther	*Stanley*
Renk, Walter Frank	*Sun Prairie*
Roberts, Edward John	*Cambria*
Roehl, Arnold Elmer	*Wausau*
Rohrbeck, Edwin Herman	*Cambria*
Royer, Kenneth Metz	*Elgin, Ill.*
Sabin, Samuel Henry	*Academy, S. Dak.*
Sahlie, Alfred	*Hamar, Norway*
Schaars, Marvin Arnold	*Merrill*
Schmelling, Milton Eric	*Shawano*
Schneider, Earl Edward	*Fort Atkinson*
Shaller, Frank Jamison	*Whitewater*
Smith, Hugo Genin	*Madison*
Stephens, Henry LeRoy	*Dodgeville*
Stevens, Theodore	*Viroqua*
Strutt, Harold Frost	*Ridgeway*
Tenpas, Reuben John	*Hingham*
Thompson, John Ray	*Madison*
Valine, Godfrey Wilhelm	*Pepin*
Wackman, Ralph Bruce	*Brooklyn*
Wahle, LeRoy Louis	*Davenport, Iowa*
Wallrich, Marshall John	*Shawano*
Wentworth, William Norris	*Milwaukee*
de Wet, Johannes Daniel	*Jagersfontein, South Africa*
Wetmore, Horace Orton	*Chicago, Ill.*
Weyker, Clement Joseph	*Dousman* —80

Freshmen

Affeldt, Arno Marcus	*Edgerton*
Alvord, Gilbert Elmer	*Rhinelander*
Anderson, John Parmor	*Oconto Falls*
Anderson, Oscar E.	*Oconto Falls*
Arnold, Sam James	*Madison*
Bartels, Roland Oscar	*Sheboygan*
Becker, Harvey Lawrence	*Galesville*
Berg, Basil William	*Dodgeville*
Blewitt, Edwin James	*Madison*
Bradley, Gervase Dynes	*Lindsey*
Brown, Carlton Neubre	*Rhinelander*
Campbell, Charles Lambi	*Washington, D. C.*
Chandler, Fergus George	*Madison*
Chapman, Marion Horace	*South Wayne*

Cooper, Austin Augustine	*Dubuque, Iowa*
Craig, Horace William	*Green Bay*
Dingeldine, Lester Carl	*Waukesha*
Ehrgott, Ernst	*Milwaukee*
Exley, Mark Morris	*Menasha*
Fenley, William Logan	*St. Matthews, Ky.*
France, Lawrence Joel	*Platteville*
Gibson, Earle Arthur	*Madison*
Gray, Willis Blackman	*Plano, Ill.*
Harrison, Robert Solon, Jr.	*Madison*
Hart, John Dwight	*Madison*
Helz, George Ernst	*Milwaukee*
Hill, Harry Ellsworth	*Waldo*
Hollands, Guy Wallace	*Parrish*
Holmes, Lawrence Germain	*Beloit*
Ingraham, Richard William	*Milwaukee*
Jones, Frank D. Lloyd	*Mauston*
Jones, Neilson	*Washington, D. C.*
Kaiser, John George	*Ripon*
Kartman, Emmett Chris	*Cassville*
Kasdin, Isador Bernard	*Morristown, N. J.*
Kaufman, Fred Henry	*Sheboygan*
Kellogg, Ernest Bowman	*Yonkers, N. Y.*
King, William John	*Brodhead*
Kropp, Herbert Louis	*Milwaukee*
McKenzie, Keith Everett	*Barneveld*
McLeon, Wallace William	*Arlington*
Mather, George Myron	*Weyauwega*
Meredith, Willis Carlyle	*Starks*
Murray, Hugo Andrew	*Elderon*
Nemecek, Ervin Francis	*Chicago, Ill.*
Nichols, Ralph Levi	*Hebron, Ill.*
Nickerson, Truman Fayette	*Prairie du Chien*
O'Dell, George	*Madison*
Ogilvie, William Edward	*Chicago, Ill.*
Olds, William	*Madison*
Palmer, Lester Merton	*Mauston*
Pellow, Leland Clifford	*Mineral Point*
Pelton, Joseph Leroy	*Madison*
Perry, Russell Lawrence	*Cuttingsville, Vt.*
Piper, George Adam	*Sharon*
Rabuck, Francis Hubert	*Wonewoc*
Reiter, Benjamin Merrel	*Racine*
Renard, Earl Joseph	*Green Bay*
Robinson, Arthur Frederick	*Mauston*
Roth, Harold Carl	*Superior*
Ruhsam, Milton Otto	*New London*
Rumage, Freeman William	*Brodhead*
Ryan, Edward James	*Independence*
Salter, Theodore Roosevelt	*Unity*
Schaefer, Herbert Carl	*Brillion*
Schneider, Ernest	*Spiez, Switzerland*
Scofield, George Harold	*Edgerton*

Sherman, Emery Alfred	*Seymour*	
Skalitzky, David Albert	*Waterloo*	
Small, George Leon	*Wauwatosa*	
Smith, Jack Eggleston	*Wausau*	
Smithyman, Ralph Pendleton	*Wauwatosa*	
Stephens, Walter Charles	*Shullsburg*	
Stevens, Nelson Roger	*Strong, Maine*	
Stiles, Russell Simmons	*Lake Mills*	
Swingle, Everett B.	*Racine*	
Tetzlaff, Glynden Stelze se	*Mishicot*	
Tolford, Frank John	*Thorp*	
Vandrell, Earl Felix	*Green Bay*	
White, Milton Francis	*Rewey*	
Whitworth, Charlie Hubbard	*Mondovi*	
Wood, Harry Maxwell	*Madison*	
Woodward, Felix Grundy	*Gallatin, Tenn.*	
Wright, Mary Alice	*Mauston*	
Zahrte, Kenneth Herbert	*Sparta*	
Zaumeyer, William John	*Milwaukee*	—86

Middle Course

Second Year

Alderton, Felix Wilford	*Laona*	
Amory, Thomas Chace	*Walpole, N. H.*	
Anderson, Victor Myllar	*Sheboygan*	
Austin, Arthur Edwin	*Lancaster*	
Austin, Roger Russel	*Lancaster*	
Baldwin, Howard Eugene	*Beloit*	
Biddick, Eugene Harlan	*Livingston*	
Craig, John Emerson	*Oconomowoc*	
Curtiss, George Brooks	*Arkansaw*	
Gibson, Edward Harold	*Fort Dodge, Iowa*	
Goodrich, Charles Victor	*Lone Rock*	
Hagen, Arthur Enoch	*Mauston*	
Hembre, Ingvald Oscar	*Greenwood*	
Higgins, William Jerome	*Waterloo*	
Meek, Louis Frank	*Peoria, Ill.*	
Murwin, Herbert Franklin	*Edgerton*	
Nelson, Harry Carl	*Menomonie*	
Reichmann, James Philip	*Wilmette, Ill.*	
Ruedy, John Emil	*Bangor*	
Scarseth, George Dewey	*Galesville*	
Smith, Charles Marion	*Macon, Ga.*	
Stewart, Heyltje	*Philadelphia, Pa.*	
Strommen, Deloris Alfred	*Cambridge*	
Trumbower, Irvin Royce	*Shell Lake*	
Vander Merwe, Ferdinand	*Transvaal, South Africa*	
Viste, Ingwald Oscar	*Sawyer*	—26

First Year

Bawden, Roger	*Arena*	
Beard, Lwellyn Russell	*Hebron, Ill.*	

Becker, John George	*Hurley*
Bernhard, George William	*Milwaukee*
Bertolaet, Elmer Edgar	*Manitowoo*
Bettendorf, Merton Leroy	*Mauston*
Cole, Lawrence Charles	*Marshall*
Ellicott, Chester Crandall	*Crystal Lake, Ill.*
Farmer, Walter Carl	*Gilmanton*
Hanke, Oscar August	*Waterloo*
Harris, Orville Frank	*Milwaukee*
Hess, Charles	*Cincinnati, Ohio*
James, Lawrence Curtiss	*Evansville*
Kelley, Leon Herbert	*Reedsburg*
Lobb, Howard Joseph	*Bessemer, Mich.*
Lopez, Antonio Gonzalez	*Mendoza, Argentine R., S. A.*
McKy, John S.	*Blue River*
Merriam, Dale Chester	*Darlington*
Miller, Perry Marquette	*Waupaca*
Nestor, John	*Constantza, Rumania*
Norris, Donald Robert	*La Moille, Ill.*
Oleson, Grunow Otto	*Rewey*
Outhouse, Eugenia Agnes	*Madison*
Payton, Earl Eugene	*Shiocton*
Peisker, Kenneth Charles	*Catamba*
Reeves, Frank Weir	*Helena, Ark.*
Rickerd, Paul Willard	*Traverse City, Mich.*
Rossow, Russell Julius	*Greenwood*
Scott, Henry Thomas	*Poynette*
Scott, Warren Humphrey	*Stanley*
Semb, Joseph	*Galesville*
Sievers, Allison William	*North Milwaukee*
Snyder, Percival George	*Clinton*
von Szeliski, Francis Paul	*Madison*
Whitefield, Julia Sprague	*Evanston, Ill.* —35

Course in Home Economics

Seniors

Alexander, Nelle se	*Paris, Mo.*
Ausman, Mary Josephine se	*Eau Claire*
Babcock, Elizabeth se	*Rock Island, Ill.*
Baldwin, Elizabeth Churchill	*West Allis*
Burke, Esther Mary se	*Wesley, Iowa*
Butler, Margaret	*Chicago, Ill.*
Campbell, Grace Lucille se	*Madison*
Catlin, Ruth Madeline se	*Glen Ellyn, Ill.*
Cheetham, Helen Cowan se	*Milwaukee*
Cook, Gladys Emerson	*Haverhill, Mass.*
Coulson, Ruth Antoinette se	*St. Louis, Mo.*
Coyle, Margaret Munson	*Ridgewood, N. J.*
Cretney, Mildred Emily se	*Madison*
Fauerbach, Edith Gretchen se	*Madison*
Frazee, Lillian Mildred	*Maweaqua, Ill.*

Heisig, Jennie Olive se	*Madison*	
Henninger, Susie Jane	*Iola, Kans.*	
Hess, Elsie Elizabeth	*Madison*	
Hoch, Mildred Lillian se	*Oak Park, Ill.*	
Jung, Hildegard Emma	*Sheboygan*	
Keenan, Matilda Elizabeth	*Madison*	
Kingsley, Mildred Alma se	*Chicago, Ill.*	
Kresge, Violet se	*Green Bay*	
Kronke, Dorothea	*Madison*	
Kuehn, Anita se	*Milwaukee*	
Maag, Viola Anna	*Milwaukee*	
Meiselwitz, Gertrude Elizabeth se	*Kiel*	
Mills, Beatrice Porter	*Hazel Green*	
Oestreich, Lorena Elizabeth se	*New London*	
Ormond, Sophia se	*Madison*	
Palechek, Edna Christena se	*Chaseburg*	
Parkinson, Caryl McCoy	*Madison*	
Pfeifer, Ruth Adaline se	*Columbus, Kans.*	
Ramsey, Margaret	*Burlington*	
Raymond, Lois Wasson	*Troy, N. Y.*	
Roth, Alma Marie se	*Fowler*	
Schlieker, Florence Isabel	*East Chicago, Ind.*	
Schoenfeld, Geneva se	*Edgerton*	
Seaver, Leona Gertrude se	*Clinton*	
Seeber, Vivien Adelaide se	*Houghton, Mich.*	
Shoninger, Dorothy Viola	*Chicago, Ill.*	
Smiley, Mary	*Albany*	
Stevens, Jessie Marian	*Grand Rapids, Mich.*	
Taylor, Ardys Marie se	*Madison*	
Thuering, Viola Louise se	*Milwaukee*	
Waffle, Naomi Emily	*Fond du Lac*	
Weeks, Christina Mary se	*Chilton*	
White, Helen Virginia	*Madison*	
Wiepking, Dorothy se	*Madison*	
Wilkins, Ethel Mae	*Sharon*	
Williams, Margaret Ann	*Bristol*	
Winckler, Salome	*Madison*	
Woods, Elizabeth Lisle se	*Louisville, Ky.*	
Wright, Isabel Lucile se	*Webster Groves, Mo.*	—54

Juniors

Adams, Marjorie Helen	*Oak Park, Ill.*	
Albright, Norma Aline	*Bloomington, Ill.*	
Baldwin, Mary Cameron	*La Crosse*	
Becken, Adela Marie	*Beaver Dam*	
Black, Edith Bernice se	*Sioux City, Iowa*	
Bremer, Charlotte Sophia se	*Madison*	
Bullock, Alice Fairfax se	*Madison*	
Burns, Gladys Elizabeth	*Oakland, Ill.*	
Byrns, Elizabeth Irene se	*Madison*	
Chase, Marjorie Myrtle	*Madison*	
Crane, Edith Lucile	*Burlington*	
Crane, Marion Louise	*Williams Bay*	

Dietrich, Kathleen Sarah	*Pekin, Ill.*
Downie, Mildred Martha se	*Madison*
Fitzgerald, Alva Mary	*Tomahawk*
Fix, Margaret Dorothea	*Madison*
French, M. Helene	*Galesville*
Grams, Carrie Emily	*Watertown*
Griffey, Bernice	*Janesville*
Hall, Aileen Ella	*Winnipeg, Canada*
Hennecke, Elsbeth se	*Milwaukee*
Heuer, Gladys Iola	*Oshkosh*
Hodgson, Mary Elsie se	*Mazomanie*
Holby, Cora Margretha se	*Madison*
Horner, Catherine Adele	*Grand Rapids, Mich.*
Jewell, Eleanor Mary	*Grand Rapids, Mich.*
Keator, Helen Lillian	*Belvidere, Ill.*
Kinslow, Mary Alice	*Bowling Green, Ky.*
Klann, Mildred Hazel	*Milwaukee*
Lambert, Ella Liner	*Brandon*
Lingenfelder, Julia Anna	*Beemer*
Little, Caroline Barnes se	*Kalamazoo, Mich.*
Martin, Hester Lucy	*Michigan City, Ind.*
Mathias, Helen Long	*Milwaukee*
Metz, Ethel Agnes	*Madison*
Miles, Elsie June	*Evansville*
Morrison, Elizabeth Lewis	*Owensboro, Ky.*
Morse, Miriam Sarah se	*Wild Rose*
Morton, Jessie	*Webster Groves, Mo.*
Nelson, Matilda	*Duluth, Minn.*
O'Connor, Annetta Mary	*Hartford*
O'Leary, Mary Catherine	*Appleton*
Purcell, Mary Elizabeth se	*Madison*
Rieck, Mildred Aileen	*Chicago, Ill.*
Rude, Dora M.	*Dodgeville*
Salter, Elizabeth M. se	*Unity*
Simpson, Marjorie Virdelle	*Hamburg, Ark.*
Slater, Sarah Elizabeth se	*De Soto*
Stack, Frances Claire	*Duluth, Minn.*
Streeter, Dorothy	*Milwaukee*
Suess, Henriette Adelaide se	*Negaunee, Mich.*
Temples, Pauline Querry	*Tulsa, Okla.*
Thompson, Frances Louise	*Madison*
Thompson, Gladys Elmyra se	*Rio*
Thompson, Helen Yoder	*West Point, Nebr.*
Thompson, Marion Rosetta se	*Madison*
Tobey, Alice Marjorie	*Wausau*
Toepfer, Margaret Louise se	*Madison*
Van Holten, Dorothy Ruth se	*Milwaukee*
Van Horn, Merle	*New Orleans, La.*
Whitehead, Trixie Knight	*Madison*
Wismer, Sarah Emma se	*Britton, S. Dak.*

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Sophomores

Agar, Helen Louise	*New West Minster, B. C., Can.*
Aylward, Florence Luella	*Madison*
Bartle, Vernetta Trenbeth	*Madison*
Beebe, Louise	*Sparta*
Bird, Geneva Anne	*Madison*
Boase, Gladys Mary se	*Mineral Point*
Brown, Mabel Ruth	*La Grange, Ill.*
Brunsell, Florence Louella	*Evansville*
Bruss, Helen Ida	*Lancaster*
Burkman, Ruth Bessie	*Roscoe, Ill.*
Corbin, Florence May se	*Madison*
Corey, Helen Grace	*De Kalb, Ill.*
Crowe, Edith	*Charleston, Ill.*
Dickinson, Pauline Dorothy	*Edgerton*
Drake, Mary Louise	*Decatur, Ill.*
Duncan, Marian Logan	*Mercer, Pa.*
Dynes, Lola Miriam	*Mount Carroll, Ill.*
Ehlert, Lucile Margaret	*Hillsboro*
Ellwood, Vera Brown	*Madison*
Faris, Nina Charlotte	*Danville, Ill.*
Freeman, Alice Elizabeth	*Saginaw, Mich.*
Gefke, Edna Maria	*Madison*
Gericke, Lucile Wilhelmina	*Lake Mills*
Goddard, Hazel Mary	*Madison*
Gregg, Jennie Emily	*Madison*
Gregg, Marion Arlene	*Madison*
Haswell, Marion Noble	*Windsor*
Hedley, Mary Esther	*Dubuque, Iowa*
Herreid, Berdelle	*Blair*
Hicks, Genevieve	*Madison*
Hollingsworth, Martha Frances	*Sheboygan*
Horter, Dorothy Frances	*Milwaukee*
Huffman, Helen Fay	*Richland Center*
Hyndman, Ruth Ora	*Capron, Ill.*
Jones, Ruth Eleanor	*Racine*
Josephson, Florence Susanna	*Cambridge*
Klenert, Florence Suzanne	*Portage*
Knilans, Nelle Winnifred	*Fort Atkinson*
Knott, Elizabeth May	*Antigo*
Kusta, Anna	*Two Rivers*
Lewis, Harriet	*Fargo, N. Dak.*
McHardy, Margaret Ann	*Hibbing, Minn.*
Mahar, Gladys Kathryn	*Hartford*
Maynard, Elizabeth Remma	*Sheboygan*
Meiselwitz, Elvera Adelgunde	*Kiel*
Mellor, Eddis Anita	*Madison*
Mink, Ruth Eleanor	*Lancaster*
Moser, Ada Magdalene	*Madison*
Mulhall, Mary Louise	*Sioux City, Iowa*
Palm, Isabel Reed	*Madison*
Patterson, Marion Josephine	*Pontiac, Mich.*

Pidd, Hazel Sadye	*Milwaukee*
Raisbeck, Agatha Ruth	*Madison*
Rathbun, Wilma Clara	*Madison*
Reynolds, Mildred Mae	*Oconto*
Rosencrans, Mary Calkins	*Madison*
Russell, Mary Katharine	*Elkhart, Ind.*
Sauerhering, Mabel Johanna	*Hartford*
Schmidt, Mabel Cretney	*Madison*
Schwenker, Margaret Amalia	*Cincinnati, Ohio*
Stangel, Viola Ann	*Manitowoc*
Steele, Marion Meiklejohn	*Racine*
Stevens, Gertrude Elizabeth	*Chicago, Ill.*
Stevenson, Ina Margaret	*Winnebago, Minn.*
Taylor, Velma Agnes	*Cascade*
Topp, Margo Elisabeth	*Columbus*
Trumbull, Faith Carolynn	*Racine*
Tucker, Birdene Iola	*Lodi*
Tyler, Lillian Ruth	*Hurley*
Waddle, Alchee Caroline	*South Wayne*
Warnes, Muriel Mae	*Chicago, Ill.*
Whalen, Ruth Elizabeth	*Peoria, Ill.*
White, Viola B.	*Beaver Dam*
Williams, Margaret E.	*Madison*
Wilson, Mildred Elizabeth	*Chicago, Ill.*
Winkelman, Helen Dorothy	*Omaha, Nebr.*
Wolfram, Violet March	*Watertown*
Wright, Adaline Victoria	*Chicago, Ill.*
Young, Hazel Elizabeth	*Galesville* —79

Freshmen

Apker, Erma Helena	*Wonewoc*
Ashton, Alice Virginia	*Washington, D. C.*
Barnes, Marion Henrietta	*Campbell, Minn.*
Betzhold, Lorraine Eugenia	*Madison*
Brereton, Ione	*Dane*
Brown, Edna	*Chicago, Ill.*
Brugger, Agatha Berenice	*La Crosse*
Bruhn, Marren Julianna	*Spring Green*
Cavanagh, Catherine Josephine	*Chicago, Ill.*
Claus, Loraine Adelaide	*Madison*
Connell, Myra Evangeline	*Chilton*
Cooper, Wilma Grace	*Oak Park, Ill.*
Cramer, Helga Elizabeth	*Aberdeen, S. Dak.*
Davy, Adeline Helen	*Madison*
Dieruf, Louetta Mae	*Madison*
Dine, Volunta Anna Jeanette	*Minster, Ohio*
Dunlap, Gertrude Margaret	*Elkhorn*
Emery, Helen Maria	*Bradford, Pa.*
Evans, Margaret Eleanor	*Chicago, Ill.*
Gault, Alice Marie	*Portage*
Gillespie, Clara Murray	*Oak Park, Ill.*
Greenwood, Constance Vivian	*Lake Mills*
Griffing, Elizabeth Adeline	*Clark, S. Dak.*

Harris, Eleanor Grace	*Racine*
Hemstreet, Ellen Amanda	*Elkhorn*
Hogan, Mary Frances	*Sault Ste. Marie, Mich.*
Hooper, Elizabeth Darling	*Janesville*
Hummel, Emma Wilma	*Arlington*
Humphrey, Mary	*Wild Rose*
Jenks, Isabel Ella	*Dodgeville*
Johnson, Priscilla	*Milwaukee*
Kassube, Bertha A.	*Oshkosh*
Kriz, Mary Evans	*Milwaukee*
LaVaque, Harriett Kathryn	*La Crosse*
Lurry, Teresa Eleanor	*Colfax, La.*
Lurry, Vida Erin	*Colfax, La.*
McCoy, Elizabeth Florence	*Madison*
McCoy, Elmyra Jean	*Bozeman, Mont.*
McCue, Grace Ellen	*St. Louis, Mo.*
McMurry, June Riddle	*Madison*
Messerschmidt, Irene Myrtle	*Madison*
Morrissey, May Gertrude	*Plainfield, Ill.*
Olen, Thyra Waneta	*Clintonville*
Oliver, Doris	*Highland Park, Ill.*
Olson, Agnes Elenora	*Madison*
Palica, Jean Louise	*Kenosha*
Petterson, Helen Emily	*Madison*
Phillips, Ruth Lucille	*Milwaukee*
Reiss, Ruth Bollinger	*Terre Haute, Ind.*
Riising, Blanche Marie	*Madison*
Rowe, Blanche Marie	*Madison*
Scanlon, Irene Charlotte	*Kentwood, La.*
Schmidt, Myrtle Lucille	*Prairie du Sac*
Scofield, Esther	*Edgerton*
Segner, Esther Frances	*St. Croix Falls*
Shannon, Helen Catherine	*Portage*
Skaar, Gunvor Astrid	*La Crosse*
Smith, Dorothy	*Pocatello, Idaho*
Smith, Florence Mary	*Madison*
Stetson, Ruth Lucile	*Lake Mills*
Sullivan, Catherine Ann	*Madison*
Sundby, Marie Thone	*Stoughton*
Talcott, Persis Elizabeth	*Joliet, Ill.*
Tenney, Mary Jane	*Madison*
Thiesen, Aileen Margurite	*Racine*
Tompkins, Elizabeth	*Webster Groves, Mo.*
Townley, Margaret Dyer	*Milwaukee*
Trumbull, Marjorie	*Racine*
Tsao, Chu Ju	*Tai Yuan Fu, China*
Wolf, Gladys Jeannette	*Madison*
Young, Ruth	*Aurora, Ill.*

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Adult Specials

Long Course

Hartman, William Albert	*Wauwatosa*	Junior
Hesse, Robert Louis	*Hartland*	Sophomore
Hise, Emery Charles	*Delavan*	Freshman
Hrudka, Ladimir Milos	*Manitowoc*	Senior
Kanitz, Ray William	*Milwaukee*	Junior
Maldaner, Theodore	*Watertown*	Junior
Olsen, Charles Edwin	*Columbus*	Freshman
Paxton, Joseph Francis	*Madison*	Freshman
Pearson, Frank William	*Kenosha*	Sophomore
Pelnar, Joseph Edward	*Kewaunee*	Sophomore
Rockwell, Leslie Howard	*Madison*	Sophomore
Sery, George Raymond	*Milwaukee*	Freshman
Steadman, Ralph Angus	*Moorcroft, N. Y.*	Sophomore
Stury, Anton	*Elkhorn*	Freshman
Tollefson, John McKinley	*Madison*	Sophomore

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Middle Course

Anderson Jack	*Milwaukee*	First Year
Crane, Charles Percy	*Sparta*	Second Year
Sloniker, Edward Custer	*Wonewoc*	Second Year
Wicker, Harold Eugene	*Abbotsford*	Second Year

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Home Economics

Van Cleave, Edith Aline	*Crawfordsville, Ind.*	Freshman

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Wisconsin Library School

Bjerknes, Alfhild T.	*Kristiania, Norway*	
Clark, Viarda	*Moline, Ill.*	
Elliott, Ada M.	*Columbia, Mo.*	
Hoffman, Ellen A.	*Ypsilanti, Mich.*	
Hudson, Alice O.	*Washington, D. C.*	
Johnson, Grace A. F.	*Oneonta, N. Y.*	
King, Ora F.	*Iowa Falls, Iowa*	
Kirk, Marguerite	*Bozeman, Mont.*	
Knowles, Phyllis C.	*Victoria, B. C., Canada*	
Magahay, Bessie C.	*Port Huron, Mich.*	
Minor, Florence	*Marshalltown, Iowa*	
Morgan, Mary	*Madison*	
Pine, Elsie H.	*Superior*	
Pressey, Julia C.	*Belmont, Mass.*	
Shouse, Harriett	*Belton, Mo.*	
Shroyer, Ethel M.	*Fort Wayne, Ind.*	
Smith, Margaret H.	*Tomah*	
Thomas, Nancy B.	*Escanaba, Mich.*	
Van Buren, Harriett	*Redfield, Kans.*	

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Joint Course

Fox, Matie D.	*Waterloo*	
Furbish, Dorothy R.	*Cambridge, Mass.*	
Jolliffe, Elsie Lucy	*Bozeman, Mont.*	
Sammis, Malvena Elizabeth	*Madison*	—4

Students Receiving Training Under the Direction of the Federal Board for Vocational Education

Anderson, Oscar	*Viola*	Engr.
Apker, James Wert	*Wonewoc*	Agr.
Appleby, Delma G.	*Boyceville*	L.S.
Aubey, Arnold B.	*Deerfield*	Ch.C.
Bandow, Irwin D.	*Madison*	Agr.
Barber, Forrest M.	*Baraboo*	L.S.
Berkelew, George M.	*Milton*	Agr.
Berndt, Bernhardt A.	*Milwaukee*	Agr.
Brehmer, Robert G.	*Fond du Lac*	C.C.
Brown, William J.	*Moline, Ill.*	Engr.
Bumbalek, John L.	*Milwaukee*	Agr.
Clemens, James P.	*Superior*	Agr.
Coates, Kenneth B.	*Neenah*	C.C.
Crisler, Archibald Earl	*Millersburg, Ind.*	Agr.
Donnelly, Charles M.	*Appleton*	Engr.
Doudna, Leland A.	*Beloit*	Agr.
Dulhanty, Emmett Tim	*Beloit*	L.S.
Dusterhoft, Herman W.	*Hermansville, Mich.*	Agr.
Engelbreth, Clarence	*Racine*	C.J.
Evanson, Henry B.	*Mount Horeb*	Engr.
Ferguson, James E.	*Washington, Iowa*	Agr.
Gage, Joseph S.	*Genesee, Kans.*	Agr.
Gessert, George W.	*Plymouth*	Engr.
Goff, Earl S.	*Bruce*	Agr.
Gorman, David H.	*Rockford, Ill.*	Agr.
Graves, Ralph Sereno	*Brooklyn*	L.S.
Gruebner, Clarence F.	*Milwaukee*	C.C.
Haase, Carl C.	*Oshkosh*	Agr.
Haskell, Bert V.	*Superior*	Agr.
Haug, Godfrey	*Milwaukee*	Agr.
Hayes, William Michael	*Baraboo*	L.S.
Hoadley, Ralph V.	*Beloit*	Agr.
Hoffman, Melvin C.	*Wilton*	Agr.
Horne, Hans G.	*Chippewa Falls*	Agr.
Jacobson, James R.	*L'Anse, Mich.*	Agr.
Johnson, Francis D.	*Beloit*	Engr.
Jones, John F.	*Marshall, Minn.*	Agr.
Julius, George William	*Fond du Lac*	Engr.
Kassara, Robert P.	*Maiden Rock*	Agr.
Kelley, Thomas J.	*Lake Geneva*	Agr.
King, Paul A.	*Madison*	L.S.
Klockau, William F.	*Rock Island, Ill.*	Engr.

Korbel, Harry	*Madison*	Agr.
Looker, Arthur R.	*Viola*	Agr.
Lord, George A.	*Chicago, Ill.*	Agr.
Louret, Maurice	*Wald*	Engr.
McCaffrey, Arthur Lawrence	*Madison*	L.S.
McDonald, William E.	*Beloit*	Engr.
McMillin, Grover E.	*Lena*	Agr.
Marx, Joseph E.	*Prairie du Sac*	Agr.
Melrose, Leland J.	*Mondovi*	C.J.
Metropoulos, Harry P.	*Madison*	Engr.
Moore, James	*Ladysmith*	Agr.
Mueller, Frederick	*Mendota, Ill.*	C.J.
Mueller, Mat P.	*Neillsville*	Engr.
Natwick, John W.	*Wisconsin Rapids*	Engr.
Nickelson, Herbert J.	*Chicago, Ill.*	L.S.
Nutt, Ambrose J.	*Milwaukee*	Agr.
O'Hardy, John R.	*Baraboo*	Agr.
Olson, Charles O.	*Madison*	Engr.
Palmer, Harold Lester	*Milwaukee*	Engr.
Petersen, Ira Lee	*Janesville*	L.S.
Pettit, George R.	*New London*	Agr.
Philippe, Gordon	*West Allis*	Agr.
Prochnow, Walter S.	*New London*	Engr.
Ramaker, Edwin A.	*Milwaukee*	Agr.
Rasmussen, Richard O.	*La Crosse*	Engr.
Reis, Nick	*Madison*	Agr.
Richards, Philip W.	*Whiteplains, Md.*	Agr.
Riemer, William Frank	*Milwaukee*	Engr.
Robinson, Harold B.	*Milwaukee*	Engr.
Rode, Hubert I.	*Ogdensburg*	Agr.
Rothman, Edward	*Marinette*	L.S.
Searls, William H.	*Chicago, Ill.*	Agr.
Sevalia, Walter S.	*Brule*	Engr.
Sheldon, John Elliott	*Hines*	Agr.
Spencer, John D.	*Oshkosh*	Engr.
Strathearn, John G.	*Manitowoc*	Agr.
Sweno, Glen E.	*Whitewater*	Engr.
Sweet, Daniel M.	*Limeridge*	Engr.
Taylor, Fred B.	*Oshkosh*	Agr.
Thatcher, Paul A.	*Danbury*	Agr.
Van de Water, Henry	*Midway*	C.C.
White, Allen W.	*Racine*	C.C.
White, Herbert Henry	*Stoddart*	Agr.
Wright, Ernest H.	*Holcomb, Ill.*	Engr.
Zaleski, Joseph J.	*Milwaukee*	Engr.

Students Enrolled in Regular Courses

Ahrens, Harvey Gerald	*Two Rivers*	Agr.
Anderson, Ben Otto	*Ashland*	C.C.
Anderson, Calmar Thorpin	*Chippewa Falls*	L.S.
Austermann, Richard V.	*Madison*	Engr.
Bacon, Wayne Buell	*Superior*	C.C.
Bailey, Paul Edward	*Menomonie*	C.C.

Balch, Harry William	*Madison*	C.C.
Ballam, George Alfred	*Madison*	Ch.C.
Beck, Seigfred Ernest	*Waubena*	Pharm.C.
Been, Paul	*Milwaukee*	L.S.
Benedict, Marion Elias	*Neillsville*	C.C.
Benell, Otto E.	*Ft. Collins, Colo.*	L.S.Grad.,Med.
Bischoff, Clifford Edward	*Superior*	C.C.
Boerke, Edison M.	*Wausau*	C.C.
Bollens, Fred Henry	*Chicago, Ill.*	Engr.
Bozarth, Roger Ainslee	*Madison*	Engr.
Bradley, Clare Smith	*Beloit*	Engr.
Brill, Lawrence Arthur	*Milwaukee*	C.C.
Brown, Lloyd Joseph	*Madison*	C.C.
Brown, Maynard Wilson	*Great Falls, Mont.*	Agr.
Bryan, Kenneth Victor	*Stillwater, Okla.*	*A.Grad.*
Burnham, Harry Arnold	*Barron*	Ch.C.
Butler, Richard	*Horicon*	Agr.
Byrns, Elmer D.	*Madison*	Agr.
Cahill, Walter D.	*Port Edwards*	Engr.
Caldwell, Earl Leroy	*Indianapolis, Ind.*	Engr.
Call, Rodney Warren	*Merrill*	Engr.
Campbell, Cleo C.	*Glencoe, Ill.*	Pharm.C.
Canuteson, Ralph Irving	*Madison*	L.S.
Capel, James Barzella	*Milwaukee*	Agr.
Carey, Leon A.	*Marion*	C.C.
Carlson, Donald Warren	*Wauwatosa*	Engr.
Carroll, Charles K.	*Richland Center*	C.C.
Carson, William Henry	*Madison*	Engr.
Christensen, William Charles	*Madison*	Ch.C.
Christoph, Earle	*Waukesha*	L.S.
Clark, Farnham	*Menomonie*	Agr.
Colvin, Hardwick Joyner	*Dubach, La.*	A Grad.
Cook, Alonzo Charles	*Milwaukee*	Agr.
Corliss, Allen G.	*La Grange, Ill.*	Engr.
Costello, Lorenz	*Eau Claire*	C.C.
Coutant, Paul Lyman	*Danville, Ill.*	C.C.
Cramer, Lawrence William	*Milwaukee*	L.S.
Crew, Louis C.	*Swiftwater, Miss.*	Engr.
Darling, Lorenzo Lyman	*Manawa*	L.S.,Law
Davis, Dudley Hopkins	*Madison*	Law
Degler, Louis F.	*Superior*	C.C.
Demetropoulos, Nicholas Demetrius	*Milwaukee*	L.S.,Med.
Desmond, John Thomas	*Boscobel*	Engr.
Desmond, John William	*Milwaukee*	L.S.
Devendorf, Joseph Joslin	*Madison*	Engr.
De Vries, Arnold John	*Madison*	Agr.
Dooley, Milton Lawrence	*Milwaukee*	Pharm.
Dunwiddie, Leon Foster	*Delavan*	Agr.
Edwards, Vivien Lynn	*Momence, Ill.*	C.C.
Ellis, Albert Eugene	*Des Moines, Iowa*	L.S.
Fellows, Frank Samuelson	*Algoma*	L.S.,Med.
Field, Walter Sherman	*Chicago, Ill.*	Engr.
Flood, Andrew Patrick	*Waco, Texas*	Law

Foland, Raymond	*Lancaster*	Engr.
French, Roy LaVerne	*Madison*	L.S.
Fritschler, John Curtis	*Sturgeon Bay*	Law
Gage, Earle E.	*Whitehall*	Pharm.
Garrigan, George Arthur	*Beloit*	Law
Gartner, Irl Cave	*Linneus, Mo.*	Engr.
Gatterdam, Paul Christoffers	*La Crosse*	L.S.,Med.
Gausted, Einar H.	*Eau Claire*	C.C.
George, Lloyd	*Geneva, Ill.*	C.J.
Gill, Corrington Calhoun	*Grand Rapids, Mich.*	C.C.
Gilson, Elmer Frank	*Gillett*	C.C.
Goedecke, Ray	*Merrimac*	L.S.
Gorrow, Mitchell G.	*Appleton*	Engr
Goshaw, Irl Rufus	*Gary, Ind.*	Engr.
Grady, Emory Lester	*Watertown*	Law
Greco, Charles	*Madison*	Law
Gregg, Ashton Carter	*Decorah, Iowa*	L.S.,Law
Greenberg, Frederick	*Milwaukee*	L.S.
Grier, Lonnie L.	*Lake Geneva*	L.S.
Guttke, Walter Otto	*Berwyn, Ill.*	Engr.
Hansen, Albert Chester	*Whitewood, S. Dak.*	Engr.
Harman, Hubert F.	*Sparta*	L.S.,Med.
Hartlett, Elvin Mann	*Germantown, Pa.*	L.S.,Med.
Hartman, William Albert	*Wauwatosa*	Agr.
Hawkes, Russell Burnet	*Oconto*	Engr.
Hawley, Clifford Stanley	*Madison*	C.C.
Heath, Oliver Kyle	*Amherst Junction*	Engr.
Hendrickson, Joel Sedwin	*Madison*	C.C.
Henry, Edison Earl	*Ashland*	Engr.
Henry, George Barrett	*Terre Haute, Ind.*	E.Grad.
Hering, Oswald Harmening	*Madison*	Engr.
Honaas, Alf	*Elk Mound*	Agr.
Hoyer, Edward L.	*Madison*	Law
Hughes, Idrys O.	*Platteville*	Agr.
Hume, Lloyd Edward	*Endeavor*	Engr.
Hunt, Lawrence Edward	*Sulphur Springs, Ind.*	L.S.
Husman, Joseph Herman	*Gillette*	Engr.
Hyer, Frank Perry	*Whitewater*	Engr.
Ingebritsen, Henry Percival	*Madison*	Engr.
Iverson, Clarence Fred	*Madison*	Agr.
Jackson, Ben Frank	*Milwaukee*	C.C.
Jaquith, Clifford LaRoy	*Green Lake*	Agr.
Johns, Cedric Perkins	*Dodgeville*	L.S.
Johnson, Edwin Clarence	*Conde, S. Dak.*	L.S.
Johnson, Elmer B.	*Madison*	L.S.
Johnson, Gustavus Emil	*Boyceville*	Agr.
Johnston, David Martell	*Madison*	C.C.
Jones, John Paul	*Milwaukee*	L.S.
Kaiser, John George	*Ripon*	Agr.
Kanitz, Ray William	*Milwaukee*	Agr.
Keller, Henry, Jr.	*Madison*	A.Grad.
Kelley, Leon Herbert	*Reedsburg*	Agr.
Kent, Hugh, Jr.	*Dundee, Ill.*	Engr.

Kleinhammer, Herman Albert	*Platteville*	Engr.
Kohl, Leo Henry	*Marshfield*	L.S.
Kuester, Hugo Leslie	*Madison*	Pharm.
Larson, Noble G.	*Barron*	Engr.
Lawrence, Hans Will	*New London*	L.S.
Leland, Thomas William	*Oshkosh*	L,S.Grad.
Lewis, Hugh L.	*Antigo*	Engr.
Lounsbury, Harry E.	*Madison*	Pharm.
Lowry, Howard James	*Colfax*	Law
Lowry, William Leonard	*Leola, S. Dak.*	C.J.
Luecker, Elmer William	*Brillion*	L.S.
Luehr, Robert William	*Manitowoc*	L.S.
McCarthy, Eugene James	*Flandreau, S. Dak.*	C.C.
McClure, Leslie Willard	*Litchfield, Minn.*	C.J.
McConnell, Kenneth	*Sparta*	Agr.
McDonald, Lawrence	*Whitewater*	C.C
Macmiller, George Gilbert	*Ashland*	C.C.
Mariotte, Walter William	*Madison*	Engr.
Mathews, Murray C.	*Ashland*	C.C.
Meier, Richard Carl	*Oshkosh*	C.C.
Merrill, Robert Allan	*Sparta*	Engr.
Michael, John Hadji	*Neenah*	Engr.
Miller, Frank Roy	*Madison*	L.S.
Miller, Thomas Foster	*Green Bay*	Engr.
Million, John Edmond	*Springfield, Ill.*	L.S.
Millman, Donald S.	*Platteville*	C.C.
Mizell, John Love	*Dallas, Texas*	A.Grad.
Munkwitz, Richard Charles	*Edgar*	Agr.
Myrland, Elel Harman	*Madison*	C.C.
Nelson, Carl Oliver	*Eau Claire*	Engr.
Nelson, Harry Carl	*Menomonie*	Agr.
Nelson, Louis Ellsworth	*Superior*	L.S.
Norgord, Andy	*Cambridge*	C.C.
Oertel, Everett	*Prairie du Sac*	Agr.
O'Hora, James Timothy	*Mazomanie*	L.S., Med.
Page, Arnold Seaver	*Kansas City, Mo.*	C.C.
Paxton, Joseph Francis	*Milwaukee*	Agr.
Peterson, Carl Edwin	*Menomonie*	Law
Peterson, Ephraim Lucius	*Stockholm*	C.C.
Peterson, Lester William	*Leonardsville, N. Y.*	Ch.C.
Philo, Clifford Allen	*Deer Creek, Minn.*	Engr.
Pinto, René Wentworth	*Madison*	L.S.
Price, Elmer E.	*McComb, Miss.*	Engr.
Price, Ferdinand Theodore	*Amherst*	Agr.
Rabbit, Ora Clyde	*Viroqua*	Engr.
Rabuck, Francis Hubert	*Wonewoc*	Agr.
Reitan, Rudolph Norman	*Bonduel*	L.S., Law
Reyer, Harold Benedict	*Colby*	C.C.
Rheaume, Roy Joseph	*Rhinelander*	C.J.
Robertson, LeRoy Link	*St. Louis, Mo.*	L.S.
Rockwell, Leslie H.	*Madison*	Agr.
Rolsted, Simon T.	*Barron*	Engr.
Rosentreter, Frederick William	*Madison*	L.S.

Rumage, Freeman William	*Brodhead*	Agr.
Runge, Herman Carl	*Sheboygan*	Law
Rust, Clarence Arthur	*Edgerton, Minn.*	Ch.C.
Ryan, Edward James	*Independence*	Agr.
Ryan, Joseph Edward	*Janesville*	Engr.
Sammond, Robert Saul	*Madison*	Engr.
Schneider, Elmer Alvin	*Madison*	L.S.
Schoechert, Adolph Emil	*Whitewater*	L.S.
Scholten, Adrian Herman	*Valley Springs, S. Dak.*	L.S.
Scott, Ralph Vernon	*Hardin, Mont.*	L.S.
Seaman, Cedric Edward	*Markesan*	C.J.
Semb, Joseph	*Galesville*	Agr.
Shaw, Ralph	*La Crosse*	Engr.
Shearer, Arlie Everett	*Marengo, Ill.*	Pharm.
Shelhammer, John W.	*Blackwell*	C.C.
Shufelt, Harlan Jeremiah	*Madison*	L.S.
Sibbe, Carl Frederick	*Superior*	Engr.
Skroch, Roman Sylvester	*Whitehall*	L.S.
Smith, Herbert Howard	*Iron River*	C.C.
Smith, Leonard Marshall	*Oshkosh*	L.S., Med.
Snoddy, William Owsley	*Glasgow, Ky.*	L.S.
Spies, Jacob A.	*Gillett*	C.C.
Steadman, Ralph A.	*Moorcroft, Wyo.*	Agr.
Stein, Bruno Adam	*South Germantown*	Ch.C.
Stroman, Govan N.	*Uvalde, Texas*	A.Grad.
Swift, John Dewey	*Darlington*	C.C.
Sylvester, Walter Herbert	*Wauwatosa*	C.C.
Thomas, Cleo Whitney	*Kenosha*	Engr.
Thomas, Henry	*Madison*	Law
Thomas, Robert Cole	*Oak Park, Ill.*	Agr.
Thorpe, Reed	*Salina, Utah*	C.J.
Thorsen, Adolph Gehard	*Milwaukee*	C.C.
Tims, Eugene Chapel	*Louisville, Miss.*	A.Grad.
Tobey, Paul Titus	*Wausau*	Gen.C.
Tollefson, John McKinley	*Madison*	Agr.
Trauba, Norbert Carl	*Marathon*	L.S., Med.
Turgeson, Fletcher	*Richland Center*	L.S., Med.
Valine, Godfrey W.	*Pepin*	Agr.
Van Steenberg, Victor	*Milwaukee*	Ch.C.
Vogel, Julius Bucham	*Madison*	Engr.
Walden, Donald Orford	*Alamo, Texas*	Engr.
Waldvogel, Elmer A.	*Wisconsin Rapids*	Engr.
Walker, Alfred Edwin	*Hinsdale, Ill.*	L.S.
Ward, Gilbert E.	*Fond du Lac*	L.S.
Washbush, Arnold Anthony	*Fond du Lac*	C.C.
Watson, Eldon Lerrigs	*Poynette*	Agr.
Weber, George F.	*Madison*	A.Grad.
Webster, Francis Lyle	*Madison*	Engr.
Wells, Charles Lester	*Platteville*	C.C.
Wiley, Robert LeRoy	*Chippewa Falls*	Law
Wittenberg, Wilber William	*Milwaukee*	L.S.
Wolff, Herman William	*Lake Mills*	Law
Wolworth, Lloyd Franklin	*Madison*	Engr.

Wood, George Emery	*Cottage Grove*	C.C.
Wood, Ralph Hereld	*Madison*	L.S., Grad.
Yapp, Clinton R.	*Madison*	C.C.
Youngberg, Adolph Frederick	*La Crosse*	Engr.
Zapata, Jose	*Madison*	Engr.

SUMMER SESSION 1921

GRADUATES

* Matriculated in the Graduate School.

Ackerman, Florence Matilda — *Detroit, Mich.*
B.S., University of Wisconsin

* Adams, Ethel Margaret — *Pelican Rapids, Minn.*
M.A., Carleton College

Adams, Lois Loretta — *Westerville, Ohio*
B.S., Otterbein College

* Adams, Mabel Eliza — *Pelican Rapids, Minn.*
B.A., Carleton College

* Agne, Royal Clyde — *Zanesville, Ohio*
M.A., Columbia University

Aid, Mary L. — *Council Bluffs, Iowa*
B.A., University of Wisconsin

* Aiyar, Swaminah Subrahmanya g — *Bangalore City, India*
B.A., University of Madras

* Albertz, Max Henry gl — *Madison*
M.A., University of Wisconsin

* Albright, Hetty Madeline — *Waukesha*
B.A., Carroll College

Alford, Pauline g — *Duluth, Minn.*
B.A., Oberlin College

* Allem, Florence N. — *San Antonio, Tex.*
B.A., University of Nebraska

Allen, Courtney Lee — *Greenville, Ohio*
B.A., Miami University

* Allen, George Washington — *Alamosa, Colo.*
B.A., University of Nebraska

Allison, Mabel Evelyn — *Cleveland, Ohio*
B.S., University of Wisconsin

Anderson, Mary — *Hudson*
M.A., Columbia University

* Anderson, Alta — *Maquoketa, Iowa*
B.A., Cornell College

Anderson, Hannah Alvida — *Swea City, Iowa*
B.A., Gustavus Adolphus College

* Anderson, Henry Oliver — *Iowa City, Iowa*
B.A., Southern Minnesota Normal College

* Anderson, John Arlington g — *Racine*
B.S., University of Wisconsin

*Andersohn, John Carl g — *Milwaukee*
M.A., University of Wisconsin

* Andrews, Elmer — *West Lafayette, Ind.*
B.A., Indiana University

* Andrews, Helen Grace — *Portage*
B.L., University of Wisconsin

Anthony, Mabel — *Albion, Mich.*
B.A., Albion College

* Apple, Russell Evans — *Robinson, Ill.*
B.S., University of Illinois

Armstrong, Anne Lucile — *Terre Haute, Ind.*
B.A., Indiana State Normal College

* Armstrong, Dora Velma — *Princeville, Ill.*
B.A., Northwestern University

* Armstrong, Eva Martha — *Wichita, Kans.*
B.S., Kansas State Normal College

* Armstrong, Martha Christena g — *Princeville, Ill.*
B.A., Northwestern University

Aschenbrenner, Stephen Alexander — *West Allis*
B.A., University of Wisconsin

* Ash, Mary-Erma — *Harristown, Ill.*
B.A., James Millikin University

Ashbrook, Esther Fern — *Madison*
Ph.B., University of Wisconsin

Ashman, Benjamin Hamlin — *Madison*
B.A., Valparaiso University

Ashman, Richard — *New Orleans, La.*
M.S., Tulane University

Atkinson, Harry James — *Joliet, Ill.*
B.A., University of Illinois

Atwood, Nelle Louise — *Grand Rapids, Mich.*
B.A., University of Michigan

*Atwood, Olive May — *Trempealeau*
B.A., Carleton College

* Auten, John Thompson — *Ames, Iowa*
B.S., University of Illinois

Ayers, Robert — *Adrian, Mich.*
B.A., Adrian College

Babcock, Florence Elizabeth — *Cumberland*
Ph.B., University of Wisconsin

* Babcock, Robert Witbech — *Madison*
B.A., Harvard University

Baber, Ray Erwin g — *Concordia, Kans.*
B.A., Campbell College

Bach, Emma Ottilia — *Bern, Switzerland*
M.A., University of Nebraska

* Baer, Martin — *Topeka, Ind.*
B.A., Goshen College

Baernstein, Harry Daniel — *Racine*
B.S., University of Wisconsin

Bahadur, Mohindra g — *Hyderabad, Deccan, India*
B.A., Punyah University

Bahe, Dorothy Virginia — *Kansas City, Mo.*
B.A., University of Illinois

* Bailey, Ernest Haydon g — *Madison*
B.S., University of Wisconsin

Bailey, Frances Willard — *Geneva, Ill.*
B.A., Beloit College
* Bain, Bertha — *Kansas City, Mo.*
Ph.B., University of Chicago
Baker, Bertha Huntington — *Topeka, Kans.*
B.S., University of Missouri
* Baker, Edith Sumner g — *Hyannis, Mass.*
B.A., Wellesley College
Baker, Grace Elizabeth — *Lexington, Ky.*
B.S., University of Kentucky
Baker, June — *Evansville*
B.A., Beloit College
* Baker, Kate Gladys — *Winchester, Ind.*
B.A., Indiana University
* Baker, Roscoe Conkling — *Bryan, Ohio*
B.S., Ohio Northern University
* Baker, Viletta Ellen — *Winchester, Ind.*
B.A., Indiana University
* Baldwin, Katrina — *Kansas City, Mo.*
B.A., University of Kansas
Ball, Mary Ethel — *Boulder, Colo.*
B.A., University of Colorado
* Ballantine, James Rolland g — *Bloomington*
B.S., University of Wisconsin
Bamford, Dotha — *Plymouth*
B.A., Beloit College
* Bamford, Mabel — *Plymouth*
B.A., Lawrence College
Bangham, Edith — *Wilmington, Ohio*
B.S., Ohio State University
Bangsberg, Myrtle Othilda — *La Crosse*
B.A., University of Wisconsin
* Banta, Blanche Slemmons — *Shelbyville, Ky.*
B.A., Georgetown College
*Banta, Josephine Davis — *Indianapolis, Ind.*
M.A., University of Chicago
* Barber, Austin Bromley — *Pleasanton, Kans.*
B.S., Kansas State Normal College
* Barber, Augustus Lawrence — *Ripon*
M.S., University of Alabama
Barnes, Gertrude Margaret — *New York City, N. Y.*
B.A., Vassar College
* Barnes, Robert James — *Neenah*
B.A., Lawrence College
* Barnes, Volney Goodrich — *Madison*
Ph.B., University of Wisconsin
Barry, Alfred Glen — *Nora Springs, Iowa*
B.C.S., Albion College
Barto, Margaret Murray — *Urbana, Ill.*
M.A., Columbia University
Battle, Anita Travis — *St. Louis, Mo.*
B.A., Washington University

* Batty, Helen Margaret — *Madison*
B.A., University of Wisconsin

Beal, John Mann — *Agricultural College, Miss.*
M.S., Mississippi Agricultural and Mechanical College

* Beaver, Howard Tichenor g — *Trinidad, Colo.*
B.A., William Jewell College

Beckmann, Jacob William — *St. Louis, Mo.*
B.A., University of Michigan

Bell, Clare Ernestine — *Minneapolis, Minn.*
B.A., Oberlin College

* Bell, Helen Martha — *Grand Haven, Mich.*
B.A., Hope College

Belt, Josephine — *Holland, Mich.*
B.A., Hope College

* Beman, Enid A. — *Oskaloosa, Iowa*
B.A., Iowa Wesleyan College

* Bender, Elbina Lavinia — *Lewisburg, Pa.*
M.A., Bucknell University

Benner, Claude Leon — *Clayton, Mich.*
M.A., University of Michigan

Bennett, Carlyle Wilson — *East Lansing, Mich.*
M.S., Michigan Agricultural College

* Bennett, Donald Menzies g — *Madison*
B.A., University of Wisconsin

Bennett, Grace Alice — *Milwaukee*
Ph.B., Lawrence College

Bidwell, Bessie Fidelia — *Detroit, Mich.*
B.S., Columbia University

Billau, Margaret Elizabeth — *Cedar Rapids, Iowa*
B.A., University of Wisconsin

* Bilsborrow, James Dater — *Urbana, Ill.*
B.S., University of Minnesota

Bing, Bee Helen — *Urbana, Ill.*
B.A., University of Illinois.

* Birdsell, Dorothea Elizabeth — *Minneapolis, Minn.*
B.A., St. Mary-of-the-Woods College

Bishop, Ruth — *Monmouth, Ill.*
B.S., Monmouth College

Black, Clarence Jay — *Danville, Ohio*
B.S., Kenyon College

* Blair, Mary Ellen — *St. Louis, Mo.*
B.A., Vassar College

Blanchard, Forest Ira — *Columbus, Ohio*
B.S., University of Pittsburgh

Blanchard, May August — *Columbus, Ohio*
B.A., Ohio State University

Blonien, Engelbert Andrew — *Milwaukee*
B.S., University of Wisconsin

* Blough, Carman George g — *Decatur, Ill.*
B.A., Manchester College

Bohan, Mary Zilpha — *Avoca*
B.A., University of Wisconsin

* Bohlman, Herbert William g B.A., Lawrence College	*South Kaukauna*
* Bohstedt, Elise B.A., Drake University	*Victor, Iowa*
Bolan, Elizabeth Margaret B.A., University of Cincinnati	*Covington, Ky.*
* Bolender, Edward Lee B.S., Miami University	*Madison, S. Dak.*
Boles, Margaret Cabell B.A., Goucher College	*Punxsutawney, Pa.*
Bolliger, Lydia Aurelia B.A., University of Wisconsin	*Madison*
* Bolton, John Henry B.A., West Virginia Wesleyan College	*Buckhannon, W. Va.*
Bond, Edith Lorraine B.A., University of Wisconsin	*Madison*
* Bonfoey, Jennie Prudence Ph.B., University of Wisconsin	*Milwaukee*
* Bongey, Ralph Hutchinson B.A., University of Wisconsin	*Menomonie*
* Borchers, Gladys Louise B.A., University of Wisconsin	*Madison*
* Borchers, Helen Augusta Ph.B., University of Wisconsin	*Madison*
* Borden, William Henry B.A., University of Wisconsin	*Madison*
Borner, June Erwine B.C.S., Albion College	*Rockford, Ill.*
Borum, Cecil Jerome B.S.A., Purdue University	*West Point, Ind.*
Boughner, Genevieve Jackson B.A., University of Minnesota	*Madison*
Bowman, Alva William B.A., Sioux Falls (S. D.) College	*Carmi, Ill.*
* Bowstead, John Edleston M.S., University of Wisconsin	*Milwaukee*
Boyd, Laura Alice M.A., Missouri State University	*Sterling, Kans.*
* Boyd, William Joseph B.A., University of Wisconsin	*Sturgeon Bay*
* Boyden, Alan Arthur g B.A., University of Wisconsin	*Madison*
Bradley, Melcena Vereeda B.A., University of Wisconsin	*Sedalia, Mo.*
Brager, Clarissa B.A., University of North Dakota	*Madison*
Brandenburg, Samuel Jacob g Ph.M., University of Chicago	*Oxford, Ohio*
* Brewer, Sylvia LaForest B.A., Simpson College	*Des Moines, Iowa*
* Brewster, Hiram Leonard B.A., William Jewell College	*Oneida, Kans.*

* Bridges, Joseph G. *Charleston, Miss.*
B.S., University of Mississippi
Briggs, Henry Russell *Madison*
B.A., University of Wisconsin
Bristol, Eloise *Webster Groves, Mo.*
M.A., Washington University
* Broda, Kathryn Emma *Canton, Ohio*
B.A., Western Reserve University
Brokaw, Eunice *Abingdon, Ill.*
B.S., Knox College
* Brokaw, Lucy Freeman *Oak Harbor, Ohio*
B.A., Indiana University
* Brooks, John g *Boston, Mass.*
B.A., Harvard University
Brown, C. Claude *Sheldon, Mo.*
B.S., University of Missouri
Brown, Clifford LeRoy *Terrell, Tex.*
B.A., Southern College (Fla)
*Brown, Emmet Michael *St. Nazianz*
B.A., St. Thomas College
* Brown, Harold Hasley *Neenah*
B.S., University of Wisconsin
Brown, Mabel Mary *Platteville*
Ph.D., University of Wisconsin
* Brown, Myrtle Ann *Cutler, Ill.*
B.A., Monmouth College
Brown, Reuben Samuel *Madison*
B.A., University of Wisconsin
Brown, Sarah Edith *Milwaukee*
B.S., University of Wisconsin
* Browning, Ethel May *Linden, Ind.*
B.A., DePauw University
Bruce, William Robert *Appleton*
B.A., Lawrence College
Bruins, Rose Wagner *Green Bay*
M.A., University of Wisconsin
* Brunkow, Orvin Richard g *Darlington*
M.S., University of Wisconsin
* Brunquist, Ernest Herman g *Madison*
M.S., University of Michigan
Bryan, Kenneth V. g *Stillwater, Okla.*
B.S., Oklahoma Agricultural and Mechanical College
* Bryan, Ollie Clifton g *Elba, Ala.*
B.S., Alabama Polytechnic Institute
Buell, Helen deVoe *Madison*
M.A., University of Wisconsin
* Bunker, Maude Ethel *Lodi*
Ph.B., University of Wisconsin
Burgin, Susie W. Gunter *Columbus, Miss.*
M.A., Columbia University
Burgin, William Garner *Columbus, Miss.*
M.A., Colorado State Teachers College

* Burleson, David Jasper — *Auburn, Ala.*
  B.S., Alabama Polytechnic Institute
* Burns, Maybel Ward — *Monmouth, Ill.*
  B.A., Monmouth College
Burr, Allen Russel — *West Salem*
  B.S., University of Wisconsin
* Burr, Samuel Engle — *Bordentown, N. J.*
  Litt.B., Rutgers College
* Burrows, Robert Newton — *Nacogdoches, Tex.*
  M.A., University of Wisconsin
* Butler, Anna Isabel — *Madison*
  B.A., University of Wisconsin
* Butler, Charles Edward — *Jacksonport*
  Ph.B., Ripon College
Butler, Margaret — *Ravenswood, Ill.*
  B.S., University of Wisconsin
Butt, Jane H. — *Viroqua*
  M.A., University of Wisconsin
* Caldwell, Albert Francis — *Richland Center*
  B.A., Park College
Caldwell, Thomas Beverly — *Madison*
  B.S., University of Wisconsin
Callaway, Elizabeth — *St. Louis, Mo.*
  B.A., Washington University
* Calvert, Charlotte Joslin gm — *Madison*
  B.A., University of Wisconsin
* Cameron, Hugh Albert — *Sylvania Pa.*
  B.A., Oberlin College
Canfield, Mary Frances — *Paris, Tex.*
  B.A., University of Nashville
Card, Harold William — *Mitchell, S. Dak.*
  B.A., Dakota Wesleyan University
* Carley, Verna Adeline — *Appleton*
  B.A., University of Wisconsin
* Carns, Marie Louise gm — *Knoxville, Ill.*
  B.A., University of Wisconsin
* Carothers, Andrew Beattie — *Starkville, Miss.*
  M.S., University of Wisconsin
* Carpenter, Mary — *Pontiac, Mich.*
  B.A., University of Michigan
* Carson, Victoria — *Oxford, Ohio*
  B.S., Miami University
Cass, Alta — *Sauk Center, Minn.*
  Ph.B., Hamline College
Cass, Daniel Edward — *Rhinelander*
  B.S., University of Wisconsin
* Cevallos, Felipe Olagner g — *Guinobatan, Albay, P. I.*
  M.S., University of Wisconsin
* Chadwick, Rachel Beal — *Detroit, Mich.*
  B.A., University of Wisconsin
Chaffee, Nelle Edith — *Ottawa, Kans.*
  B.A., Baker University

Chapel, Ralph Ezra — *Akron, Ohio*
B.A., Western Reserve University

Chappel, Meda — *Oregon*
B.A., University of Wisconsin

* Chappelear, Claude Simpson — *Greenville, Ill.*
B.S., Greenville College

Chappell, Alice Myrl — *Trempealeau*
B.S., University of Wisconsin

Charlton, Elizabeth — *Omaha, Nebr.*
B.A., Monmouth College

Chase, Albert Guy — *Ripon*
B.A., University of Wisconsin

Chen, Chia Lin — *Peking, China*
M.A., Cornell University

* Chez, Frances Graves — *Wahoo, Nebr.*
B.A., University of Nebraska

* Chiao, Wan Hsuan g — *Shansi, China*
B.A., University of Wisconsin

* Chu, Ting Oo g — *Peking, China*
Graduate, Geologic Institute, Peking, China

Clapsaddle, Reeta Margaret — *Leland, Ill.*
B.A., University of Wisconsin

Clark, Gertrude Isabelle — *Ottawa, Kans.*
B.S., Monmouth College

Clark, Helen Eugenia — *Kansas City, Mo*
B.A., University of Kansas

Clark, Margie Eleanor — *Ottawa, Kans.*
B.A., Ottawa University

Clark, Mary Berry — *Sheffield, Ala.*
B.A., Converse College

Clarke, Lennox Barrett — *Two Rivers*
B.A., Northwestern University

Clarke, Lydia Schaper — *Two Rivers*
B.A., Ripon College

* Clarke, Mary Virginia — *Kansas City, Mo.*
B.A., Missouri Valley College

Clary, Cora Agatha — *Syracuse, N. Y.*
B.A., Syracuse University

Claudio, Eduardo Leynes — *Batangas, P. I.*
M.S. Columbia University

* Clement, Fred Moore — *Vancouver, B. C.*
B.S.A., University of Toronto

Cleveland, Catherine Caroline — *Chicago, Ill.*
Ph.D., University of Chicago

* Clugston, Phil R. g — *Madison*
M.A., University of Wisconsin

Coat, Bessie Lorah — *Peoria, Ill.*
B.A., Knox College

Coates, Charles Penney — *St. Louis, Mo.*
LL.B., Washington University

* Coats, Roscoe Jesse — *Detroit, Mich.*
B.A., Indiana University

* Coburn, Elizabeth Mary — *Chicago, Ill.*
  B.A., Sinsinawa College
* Coe, Arthur William — *Horicon*
  B.S., University of Wisconsin
* Colvin, Hardwick Joyner g — *Dubach, La.*
  B.A., Louisiana State University
* Combs, Mabel Anne — *Canton, Ohio*
  B.A., Wilson College
Comings, Mary Huntington — *Eau Claire*
  M.A., University of Wisconsin
* Compton, Maud Fisher — *Independence, Mo.*
  B.S., University of Missouri
Conlin, Ruth Margaret — *Madison*
  B.A., University of Wisconsin
* Conn, Russell Archibald — *Edgerton*
  B.A., University of Wisconsin
* Conover, Frederic LeRoy g — *Madison*
  B.A., University of Wisconsin
Conover, Marion Clark — *Madison*
  B.A., University of Wisconsin
* Conrad, Agnes gm — *Madison*
  M.S., University of Wisconsin
Conzett, Donald Corrance — *Dubuque, Iowa*
  B.S., Northwestern University
Cooke, Nellie — *Kansas City, Mo.*
  Ph.B., DePauw University
* Cooley, Ruth — *Kalamazoo, Mich*
  B.A., Kalamazoo College
Cooper, Lois Wadsworth — *Brookhaven, Miss.*
  B.M., Cincinnati Conservatory
* Cooper, Rose Mary — *St. Louis, Mo.*
  B.A., University of Michigan
Cottam, Walter Pace — *Provo, Utah*
  M.A., Brigham Young University
* Cottrell, Lois Marie — *Rockford, Ill.*
  B.A., University of Wisconsin
* Coursen, William Marshall — *East Youngstown, Ohio*
  B.S., Ohio State University
* Cox, Alvalon Conway — *Evansville, Ind.*
  B.A., Indiana University
Crain, Marcella Lois — *Columbus, Ohio*
  B.S., Ohio State University
Crawford, Alma Elizabeth g — *Ottawa, Ill.*
  B.A., Northwestern University
Crawford, Helen Martha — *Winfield, Kans.*
  B.A., Southwestern College (Kansas)
* Crawford, Lewis W. g — *Syracuse, N. Y.*
  M.A., Princeton University
Creamer, Hazel Marguerite — *Peru, Mass.*
  B.A., Mount Holyoke College
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  B.A., Beloit College

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B.S., Missouri State Normal School
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B.A., University of Illinois
Crozier, Marion Augusta — *New York City, N. Y.*
B.A., Smith College
Curran, Honora Josephine — *Indianapolis, Ind.*
B.A., DePauw University
Curtiss, Mary Harriet — *Ionia, Mich.*
Ph.B., University of Chicago
Dale, Ruth Geraldine — *Chicago, Ill.*
B.A., Northwestern University
* Danhour, Gretchen Leeds — *Clay City, Ind.*
B.A., Indiana University
Darrin, Josephine Nellie — *Chicago, Ill.*
B.M., University of Wisconsin
Dauer, Pearl Lydia — *Haskins, Ohio*
B.A., Heidelberg University
* Davies, William Robert — *Marshfield*
B.A., Ripon College
Davis, Florence Virginia — *Portland, Ore.*
B.A., University of Utah
Davis, Harriet Katherine — *East Las Vegas, N. Mex.*
B.A., University of New Mexico
Davis, Ira Cleveland — *Madison*
B.A. Ripon College
* Davis, Irving Gilman — *Storrs, Conn.*
B.A., Bates College
Davis, James Elmer g — *Madison*
M.A., University of Wisconsin
Davis, John Blackwell — *Milwaukee*
B.S., Beloit College
* Davis, Ray Joseph g — *Provo, Utah*
B.S., Brigham Young University
* Davis, Stanley Forrest — *Stephenville, Tex.*
B.S., Texas Agricultural and Mechanical College
Davis, Virginia Irving — *Terre Haute, Ind.*
B.A., Indiana State Normal School
* Davis, William Harold g — *Madison*
M.A., University of Wisconsin
* Davis, William Lloyd g — *Madison*
Ph.B., University of Wisconsin
Daymude, Mildred — *Monmouth, Ill.*
B.A., Monmouth College
* Dean, Angeline Marion — *Coldwater, Mich.*
B.A., Albion College
DeBoer, Rensine C. — *Osceola*
B.A., Park College
* Decker, Charles Ernest — *Kewanee, Ill.*
M.A., University of Wisconsin
* Decker, Venora Stephens — *Kewanee, Ill.*
B.A., Aurora College

* DeCleene, Louis Antoine Victor — *West DePere*
  M.A., Catholic University
* Deerhake, Deveda Catherine — *Greenfield, Ind.*
  B.A., DePauw University
DeGraff, Lula Eleanor — *Alta, Iowa*
  B.A., Missouri State Teachers College
DeGraff, M. H. — *Alta, Iowa*
  B.A., Colgate University
* DeLong, Edna — *Rockford, Ill.*
  B.A., Cornell University
* Dennis, Edith May — *Grand Rapids, Mich.*
  B.A., Vassar College
* Deutsch, Herman Julius g — *Milwaukee*
  M.A., University of Wisconsin
Dickerson, Nettie — *Livonia, Mo.*
  B.S., Missouri State Normal School
* Dietrich, Ethel Barbara — *Racine*
  M.A., University of Wisconsin
Dixon, Jennie Grace m — *La Crosse*
  M.A., University of Wisconsin
* Dixon, Raymond Ephraim — *Lexington, Va.*
  M.A., University of Wisconsin
Dobson, Wanda Juanita — *Winfield, Kans.*
  B.A., Southwestern College (Kansas)
* Dodge, Chester Lyman — *Mondovi*
  B.A., University of Wisconsin
Dodge, Florence Adela — *Madison*
  M.A., University of Wisconsin
Dollar, Ferne Vida — *Oshkosh*
  B.S., Columbia University
* Donaldson, Agnes — *Agricultural College, Miss.*
  B.S., Mississippi State College for Women
Donnelly, Helen Mary — *St. Louis, Mo.*
  B.A., Washington University
* Dopkins, Elmo Carlyle g — *River Falls*
  M.A., University of Wisconsin
* Dorau, Herbert Benjamin g — *North Fond du Lac*
  M.A. University of Wisconsin
* Dresser, Catherine Zane — *Denver, Colo.*
  B.A., University of Denver
Drew, Ellen Bessie — *Evanston, Ill.*
  B.S., Northwestern University
* Drips, William Edward — *Ames, Iowa*
  B.S., University of Wisconsin
Dryer, Mary Chambers — *Birmingham, Ala.*
  B.A., Converse College
Dudley, Helen M. — *Morrow, Ohio*
  M.A., University of Michigan
Dugan, Frances Dorwin — *Decatur, Ind.*
  B.A., Vassar College
* Dundas, Muriel Elizabeth — *Bad Axe, Mich.*
  B.S., Michigan Agricultural College

* Dunn, Mary Bertha — *Lena, Ill.*
B.A., Beloit College
* DuRant, Augustus Lowry g — *Cottageville, S. C.*
B.S., Clemson College
* Durch, Rose Magdalene — *Chippewa Falls*
B.A., University of Wisconsin
Durgan, Effie — *Kansas City, Kans.*
B.A., Kingfisher College
* Easterling, Aldis Byron — *Kokomo, Ind.*
B.A., Lawrence College
Eastman, Harry Rudolph — *Lansing, Iowa*
B.A., Beloit College
* Eberly, Minerva Armenta — *Pennville, Ind.*
M.A., Columbia University
* Edmonds, Charles Crawford — *Watertown*
M.A., University of Wisconsin
Edwards, Alletta Coryell — *Brockport, N. Y.*
M.A., University of Rochester
Edwards, Jeffie Elmer — *Wagoner, Okla.*
M.Eng.Lit., Spaulding College
Edwards, Paul G. — *Evansville*
B.A., Carroll College
Edwards, Wilmer Charles gm — *Marion*
B.A., University of Wisconsin
Ehresman, Irene Augusta — *Blue Earth, Minn.*
B.A., Carleton College
* Eickelberg, Myrtle Mary g — *Milwaukee*
B.A., Milwaukee-Downer College
Eichmann, Paul Gerhard — *West Bend*
B.A., Northwestern College
Elliott, Floyd Milton — *Ada, Ohio*
Ph.B., Ohio Northern University
Elliott, Harriet Wiseman — *Carbondale, Ill.*
M.A., Columbia University
Elliott, Mary Katherine — *Superior*
B.S., University of Wisconsin
* Ellis, Mabel Evangeline — *Rockford, Ill.*
B.A., University of Wisconsin
Ellwood, Sarah Maria — *Madison*
B.A., Greenville College
* Elmer, Arthur Conrad — *Monroe*
B.S., Northwestern College
* Elsea, Bernice Edna — *Findlay, Ohio*
B.A., Otterbein College
Endres, Gregory Michael — *Madison*
B.A., Columbia College
Erb, Dorothy Kurtz — *Anamosa, Iowa*
B.A., Cornell College
Ericson, Hattie — *Lindborg, Kans.*
B.A., Bethany College
* Erwin, Josephine — *Milwaukee*
B.A., University of Wisconsin

Estby, Walter Stonewall — *Cyrus, Minn.*
B.A., Concordia College
* Ester, Elsie May — *Liberal, Kans.*
B.S., Kansas State Agricultural College
Estrem, Andrew — *Olivet, Mich.*
Ph.D., Cornell University
Estvad, E. Ruth Christensen — *Madison*
B.A., University of Wisconsin
* Eubank, Myrtle Ann — *Richmond, Va.*
B.A., University of Wisconsin
Evans, Nevada Sutherland g — *Spooner*
M.A., University of Minnesota
Fahning, Grace Helen — *Waterville, Minn.*
B.A., University of Minnesota
Falls, Anna Elizabeth — *Littles, Ind.*
B.A., Oakland City College
* Falls, Marion Zella — *Chicago, Ill.*
B.S., Lewis Institute
Farmer, Elma L. — *Belleville, Ill.*
B.S., University of Illinois
Farrington, Edgar George — *Mondovi*
B.S., University of Wisconsin
Farthing, Nelle Minerva — *East St. Louis, Ill.*
Ph.B., University of Chicago
* Fattic, Olive Siemann — *Berrien Springs, Mich.*
B.A., Emmanuel Missionary College
Fawcett, Lois Margaret — *Stewartville, Minn.*
B.A., Hamline University
Fay, Genevieve — *Wyoming, Ohio*
B.S., University of Cincinnati
Fay, Sarah Helen — *Wyoming, Ohio*
B.S., University of Cincinnati
* Fehlandt, August Frederick — *Ripon*
B.A., University of Wisconsin
Feller, Ella Teressa — *Toledo, Ohio*
B.S., Toledo University
* Fellows, Hurley M. g — *Hoff, Ore.*
B.S., Oregon Agricultural College
Fenton, Frederick Charles — *Aurora, Ill.*
B.A., Aurora College
* Ferrell, Clyde Miser — *Carrollton, Ohio*
B.A., University of Wisconsin
Fertia, George Joseph — *Louisville, Ky.*
B.S., Ch.E., Purdue University
* Fish, Olive Caroline — *Cleveland, Ohio*
B.A., Western Reserve University
* Fisher, Ernest McKinley g — *Madison*
B.A., Coe College
* Fisher, Robert Anderson — *Steubenville, Ohio*
M.S., Ohio State University
* Fisk, Emma Luella g — *Madison*
B.A., Wellesley College

* Fitch, Eliot Grant — *Milwaukee*
B.A., Yale University
* Fite, Alexander Green — *Long Beach, Cal.*
M.A., Vanderbilt University
Fitzgerald, Jean Katherine — *Columbus, Ohio*
B.A., Ohio State University
* Fix, Alois Ashley — *Madison*
B.S., University of Wisconsin
* Fjelstad, Philip Leroy — *Colfax*
B.A., St. Olaf College
* Flint, Rebecca Punchard — *Madison*
B.A., Wellesley College
Flynn, Con C. — *St. Louis, Mo.*
M.A., University of Illinois
* Forsberg, Allen Bennet — *Milwaukee*
B.A., University of Wisconsin
Forsythe, Lois Stevenson — *St. Louis, Mo.*
B.A., Washington University
Fossness, Absolon — *Lakefield, Minn.*
B.A., St. Olaf College
Fossum, Peter Even g — *Meridian*
B.A., St. Olaf College
Foster, Alice Jean — *La Crosse*
Ph.B., University of Chicago
Foster, Verna Susan — *Milton*
B.A., Milton College
Foureman, Alma Bireley — *Greenville, Ohio*
B.A., Oberlin College
Fouts, Averil Elizabeth — *Diller, Nebr.*
B.S., University of Nebraska
* Frank, Celia — *Philadelphia, Pa.*
B.S., Temple University
Frank, Charles Harold — *Bassett, Nebr.*
B.S., Hastings College
Frank, Joseph Otto — *Oshkosh*
M.A., Indiana University
Franklin, Florence Melvina — *Munhall, Pa.*
B.A., University of Pittsburgh
Freeman, Matthew Livingston — *Agricultural College, Miss.*
M.S., Mississippi Agricultural and Mechanical College
French, Gertrude Marie — *Wenona, Ill.*
B.S., Northwestern University
* Frick, Carl Emmet g — *Akron, Ohio*
M.A., Ohio State University
Fries, John Edmund — *Waukesha*
B.A., Carroll College
Fry, Leonard Cook — *Columbia, Mo.*
B.A., Central College
* Fuller, Nanny Curtis — *Ludlow, Ill.*
B.A., Northwestern University
Fuller, Vivian Margaret — *La Crosse*
B.A., University of Wisconsin

Funk, Lillian Mabel B.S., Northwestern University	*Chicago, Ill.*
* Gabbard, Letcher P. g M.S., University of Wisconsin	*Rockford, Ky.*
* Gallup, Merle Robb B.A., Hedding College	*Abingdon, Ill.*
Gapen, Edna Courtney B.A., University of Wisconsin	*Orangeville, Ill.*
* Gardner, Dorothy Genevieve B.A., University of Wisconsin	*Platteville*
Garner, Virginia B.S., University of Chicago	*Macon, Ga.*
Garnes, Ruth Mary B.S., Coe College	*Cedar Rapids, Iowa*
Garrett, Edward Richard B.A., Tougaloo College	*Alcorn, Miss.*
Garver, Miriam E. B.A., Manchester College	*Trotwood, Ohio*
Gary, Helen Niles B.A., Boston University	*Washington, D. C.*
Gates, Alice Mae Ph.B., Shurtleff College	*Alton, Ill.*
Gath, Gertrude Verena B.A., University of Wisconsin	*Madison*
Gath, Helen Dorothy B.A., University of Wisconsin	*Madison*
Gaulke, Harry Hermon B.A., Ellsworth College	*Dows, Iowa*
* Gaydon, Nellie Frederica B.A., Augustana College	*Geneseo, Ill.*
Gehrs, John Henry M.S., University of Wisconsin	*Cape Girardeau, Mo.*
Geiger, Kathryn Marie B.A., University of Wisconsin	*Monroe*
* Geiger, Maibelle B.A., Kalamazoo College	*Holland, Mich.*
* Gerberich, John Adam Ph.B., University of Wooster	*Danville, Ohio*
* Getzendanner, Jessie Tumy B.A., University of Cincinnati	*Cincinnati, Ohio*
Gibson, Grace Laura M.A., Oberlin College	*Toledo, Ohio*
Gielow, Sylvia Mildred B.A., Aurora College	*Tecumseh, Nebr.*
* Gifford, Clarence Wesley B.A., Carroll College	*Dodgeville*
Gill, Grace Irene B.A., St. Mary-of-the-Woods	*Sioux City, Iowa*
* Gill, Helen Van Riper B.A., Smith College	*Mamaroneck, N. Y.*
Gillespie, Fred Clarence B.A., University of Pittsburgh	*Duquesne, Pa.*

Gilmer, Hiram Bruister — *Butler, Ala.*
B.A., Howard College
Gish, Lydia Frances — *Sterling, Kans.*
B.A., Ottawa University
Gish, Mary Alice — *Sterling, Kans.*
B.S., Kansas State Agricultural College
* Glass, James LeRoy g — *Sun Prairie*
B.A., Southwestern College
Godfrey, Percy Downing — *St. Paul, Minn.*
B.A., Carleton College
Godfriaux, Henry Renile — *Marshall, Mo.*
B.A., William Jewell College
Goff, Sidney Britton — *Elkhorn*
B.S., University of Wisconsin
Goddall, Josephine — *Toledo, Ohio*
B.A., Oberlin College
Gooden, Orville Thrasher — *Conway, Ark.*
M.A., Columbia University
* Goodyear, Bessie Edith — *Wichita, Kans.*
B.A., Friends' University
Gotschall, Harry C. — *Marion, Ind*
B.S., Newberry College
Goudie, Janet Galbraith — *Ironwood, Mich*
B.A., University of Michigan
Gowdy, Leta Maria — *Tabor, Iowa*
B.S., University of Wisconsin
* Graham, Elizabeth Adeline — *Pella, Iowa*
Ph.B., Central College
Graham, Evelyn Eliza — *Chicago, Ill.*
B.A., University of Chicago
* Graham, Lucile — *Portsmouth, Ohio*
B.A., Goucher College
Graham, Mary Ethel — *Winfield, Kans.*
B.A., Southwestern College
Granum, Bertha Camilla — *Amery*
B.A., Carleton College
* Gray, Bessie — *Waynesboro, Miss.*
B.A., Shorter College
* Gray, Giles Wilkeson — *Greensburg, Ind.*
B.A., DePauw University
Gray, John — *San Francisco, Calif.*
M.S., University of Wisconsin
Gray, Mary — *Woodsfield, Ohio*
B.S., Ohio State University
Green, Ruth Elizabeth — *Fond du Lac*
B.A., University of Wisconsin
* Greene, Leon Sherman — *Alfred, N. Y.*
B.S., Alfred University
Gregory, Cottell — *Louisville, Ky.*
B.A., University of Kentucky
* Griesel, Levi John — *Beatrice, Nebr.*
B.A., Nebraska Wesleyan University

Griffin, Grace Margaret — *Madison*
B.A., University of Wisconsin
* Griffith, Preston Heath — *Baton Rouge, La.*
B.A., University of Louisiana
Grigg, Al Weller — *Farmdale, Ohio*
B.A., Greenville College
* Grimm, Florence Marie — *University Place, Nebr.*
M.A., University of Nebraska
Grindle, Ross Mitchell — *Colorado Springs, Colo.*
B.A., Indiana University
* Grindstuen, Iver Iverson — *Belfield, N. Dak.*
B.A., Luther College
Griswold, Louise g — *Springfield, Ill.*
B.A., Oberlin College
* Groesbeck, Gladys Lillian — *Ripon*
B.A., Ripon College
* Grosh, Lulu — *Wichita, Kans.*
B.A., University of Kansas
* Gross, Erwin George — *Merrimac*
M.S., University of Wisconsin
Groves, Regina Eunice — *Madison*
B.A., University of Wisconsin
Groves, Robert Leroy — *Chicago, Ill.*
B.A., University of California
* Gruber, Jesse Paul — *Indianapolis, Ind.*
B.A., Indiana University
Gummersheimer, Cordelia Elizabeth — *Belleville, Ill.*
B.A., Knox College
* Hagstrom, Ray Gunnar — *Youngstown, Ohio*
B.A., Hiram College
Hahn, Ada Alma — *Jefferson*
B.A., Lawrence College
Halaas, Eugene Trygve — *Christine, N. Dak.*
B.A. Concordia College
Hall, Frank Gregory g — *Milton*
M.A., University of Wisconsin
Halsted, Katherine Louise — *Rochester, N. Y.*
B.A., University of Rochester
Hamilton, Harley Stewart — *New Richmond, Ohio*
LL.B., Cumberland College
Hammers, Amy — *Malvern, Iowa*
B.A., Simpson College
Hankey, Anna Marcella — *Madison*
B.A., University of Michigan
* Hanley, Mary Lois — *Milwaukee*
B.A., University of Wisconsin
* Hanna, Blanche — *Oklahoma City, Okla.*
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Hanna, Helen Irene — *Epworth, Iowa*
M.A., University of Illinois
Hansen, Agner Bert — *Racine*
B.S., Thiel College

Hanson, Melvin Arthur — *Union Grove*
B.A., Carroll College

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M.A., University of Wisconsin

Hargrave, Mary — *Madison*
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Haury, Delia Hunter — *Buhler, Kans.*
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Haury, Gustav A. — *Buhler, Kans.*
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Haury, Harry Robert — *Moundridge, Kans.*
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* Hauter, Lilla Holly — *State College, N. Mex.*
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* Hawkins, Joseph Elmer — *Waco, Texas*
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* Hay, Donald Leith g — *Milwaukee*
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Haynes, Martin Green — *Milwaukee*
B.A., Fisk University

Haynes, Ruth Adella — *Brook, Ind.*
B.A., DePauw University

* Head, Guerdon Herbert g — *Platteville*
B.S., University of Wisconsin
* Heal, Garold William g — *Marshfield*
B.S., University of Wisconsin
Healy, Hazel Marie — *Muscatine, Iowa*
M.A., University of Wisconsin
Heibel, Alcun — *St. Benedict, Oregon*
B.A., Mt. Angel College
* Hein, Frederick William — *South Milwaukee*
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Heiberg, Harriet Guinoir — *Madison*
B.S., University of Wisconsin
* Heible, Herbert Henry — *Cape Girardeau, Mo.*
B.A., Beloit College
Helm, Martha Lena — *Webb City, Mo.*
B.Pd., Missouri State Normal
Hendricks, Doyle — *Easley, S. C.*
B.S., Clemson College
* Hendrickson, Clarence Irving g — *Madison*
B.S., University of Wisconsin
Henke, Harold Eugene g, m — *Baraboo*
B.A., Carroll College
Henrichsen, Christian Brun — *Bergen, Norway*
B.S., University of Wisconsin
Henry, Emma Thompson — *Kensal, N. Dak.*
B.S., Valparaiso University
Henry, John Martin — *Cedar Rapids, Iowa*
B.A., Ohio State University
* Henry, Lena Elizabeth — *Liberal, Kans.*
B.A., Baker University
Henry, William Benjamin — *Oconto Falls*
Ph.B., University of Wisconsin
Herr, Georgette — *Brazil, Ind.*
B.S., Oxford College
Herreid, Myron Tillman g — *Blair*
B.S., University of Wisconsin
Herriford, Iona — *Wichita, Kans.*
B.A., Fairmount College
Herriford, Margie — *Wichita, Kans.*
B.A., Fairmount College
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B.A., University of Wisconsin
Hertzman, Alrick Brynhjolf g — *Ashland*
B.A., Gustavus Adolphus College
Heseltine, Myrtle Susan — *Grand Rapids, Mich.*
B.A., University of Michigan
Hess, Ardis Marie — *Mauston*
B.S., University of Wisconsin
* Huebner, Bernhard Philip g — *Galesburg, Ill.*
B.A., Knox College
* Hiatt, Jennie May — *Peoria, Ill.*
B.A., Eureka College

* Hickerson, Frank Raymond — *Wellaville, Mo.*
B.A., University of Missouri
* Hickey, Mary Catherine — *Reedsburg*
B.A., University of Wisconsin
Hicks, Marion Adah — *Madison*
B.A., University of Wisconsin
Hill, Cecil Kathryn — *Red Oak, Iowa*
B.A., Coe College
Hill, Isabelle Laura — *Milwaukee*
B.A., University of Wisconsin
Hill, Mary Oral — *Streator, Ill.*
B.S., Northwestern University
Hill, Wilford Perkins — *Dousman*
B.A., Carroll College
* Hinterberg, Edward Herman — *Highland*
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* Hirsch, Everett Charles — *Rice Lake*
Ph.B., University of Wisconsin
Hirt, Anne Louise — *Antigo*
B.A., Lawrence College
* Hitt, Arthur Adolph — *Alma*
B.A., University of Wisconsin
Hixon, Ralph Malcolm g — *Crown Point, Ind.*
B.S., Iowa State College
* Hixon, Stella Sadler — *Madison*
B.A., Des Moines University
* Hoekje, Emma Cordelia — *Holland, Mich.*
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Hoffman, John Wesley — *New Orleans, La.*
B.S., Albion College
Holland, Julia Fries — *Shreveport, La.*
B.A., University of Louisiana
Hollister, Clarence Allan — *Racine*
B.A., University of Wisconsin
* Holloway, Doris Jean — *Detroit, Mich.*
B.A., University of Illinois
Holmes, Milan Cleveland — *Fayette, Iowa*
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* Holsinger, Ernest Jonas — *Marion, Ind.*
B.A., Marion College
* Holt, Frank Oscar — *Janesville*
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* Holtwick, Enoch Arden — *Greenville, Ill.*
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* Holum, Ruth Caroline — *Madison*
B.A., University of Wisconsin
* Hood, Marion Winifred — *Manistique, Mich.*
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* Hood, Sadie Elizabeth — *Racine*
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B.S., University of Wisconsin
* Hoppert, Carl Arthur g — *Sheboygan*
B.S., University of Wisconsin
* Hoppin, Edith — *Milwaukee*
B.A., University of Wisconsin
* Horton, Ethel Sue — *Baraboo*
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* Howerton. Flossie Jackman — *Meridian, Miss.*
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* Hughes, Violet Ann — *Henryetta, Okla.*
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B.A., Milton College
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Kalheim, Mildred Serene — *Detroit, Minn.*
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* Kerr, James Purvis — *Grand Rapids, Mich.*
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Koop, Ann Wilhelmina — *Louisville, Ky.*
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Koppenaal, William Paul — *Holland, Mich.*
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* Kramer, Helen May — *Mansfield, Ohio*
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Kreutz, George Charles g. m B.A., University of Wisconsin	*La Crosse*
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Krill, Minnie May B.A., Baldwin-Wallace	*Edgerton, Ohio*
* Krueger, Hattie Ottelia B.A., University of Wisconsin	*Stevens Point*
* Kump, Maude B.A., Drury College	*Springfield, Mo.*
* Lake, Ella Frances B.A., College of Emporia	*Emporia, Kans.*
Lamont, Agnes Dalzell B:A.,Earlham College	*Mooresville, Ind.*
Lamont, Marion Elizabeth B.A., University of Wisconsin	*Madison*
* Lancaster, Alice May B.A., Iowa State University	*La Crosse*
Larsen, Hans Christian B.A., Ripon College	*Stoughton*
Larson, Elsie Marie B.A., Augustana College	*Moline, Ill.*
* Larson, Karl Gottfrid B.A., Augustana College	*Rockford, Ill.*
LaRue, Mary B.A., Illinois Woman's College	*Jacksonville, Ill.*
Lathrop, Francis Child B.A., University of Wisconsin	*Madison*
Lathrop, Margaret B.A., University of Wisconsin	*Madison*
Laudenslager, Lulu Mabel B.Pd., Valparaiso University	*Racine*
* Lauter, Carl John B.S., University of Illinois	*Quincy, Ill.*
* Lauterbach, Walter Wesley B.S., University of Illinois	*Bushnell, Ill.*
* Law, Joseph Thaddeus g M.A., University of Wisconsin	*Springfield, Mo.*
Lee, John S. B.A., Oskaloosa College	*Forest City, Pa.*
* Lehman, Ethel Charlotte B.A., Ripon College	*Ripon*
Lehmann, William Christian M.A., Vanderbilt University	*Madison*
* Leker, William Rudolph B.A., Park College	*Milwaukee*
* Leland, Thomas William g B.A., University of Wisconsin	*Oshkosh*
* Lende, Norman B.A., St. Olaf College	*Cottonwood, Minn.*

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B.S., University of Wisconsin
* Lewis, Jennie — *Basil, Ohio*
B.A., Ohio Wesleyan College
Lewis, Thomas Edwin — *Sleepy Eye, Minn.*
B.A., University of Wisconsin
Limp, Charles Earl — *Holton, Ind.*
M.S., University of Wisconsin
* Linch, Leta Blanche — *Lincoln, Nebr.*
B.A., University of Nebraska
Lindbergh, Evangeline L. L. — *Detroit, Mich.*
B.S., University of Michigan
* Linebach, Jessie Mabel — *Colony, Kans.*
B.A., Baker University
* Linnemann, Alexander A. g — *Madison*
B.A., St. Charles Seminary
Lock, Emily C. — *Galva, Ill.*
B.S., Knox College
* Lockhart, James I. — *Pueblo, Colo.*
B.A., Colorado State Teachers College
Logan, S. Rae — *Hardin, Mont.*
B.A., University of North Carolina
Lomax, Muriel Margaret — *St. Joseph, Mo.*
B.A., St. Joseph Junior College
Loomis, Florence Augusta — *Boonville, N. Y.*
Ph.B., Syracuse University
Loomis, Grace Adele — *Fargo, N. Dak.*
B.A., Fargo College
Lorfeld, Gerhard William — *Sheboygan*
B.S., University of Wisconsin
Losee, Isabelle Martha — *Chicago, Ill.*
B.A., University of Illinois
* Loth, Herbert Charles — *Chicago, Ill.*
B.S., Northwestern University
Lotz, James Milton — *Dayton, Ohio*
B.A., Pennsylvania State College
Loughlin, Agnes Colestine — *Madison*
M.A., University of Wisconsin
* Lovejoy, Philip Craven — *Benton Harbor, Mich.*
B.A., University of Michigan
Luckey, Ruth Campbell — *Madison*
B.A., University of Wisconsin
Luehr, William Henry — *Manitowoc*
B.L., University of Wisconsin
* Lumpkin, Hope Henry g — *Madison*
B.A., University of South Carolina
B.D., University of the South
Lundberg, George Andrew — *Fairdale, N. Dak.*
B.A., University of North Dakota
* Lush, Jay Laurence — *Altamont, Kans.*
M.S., Kansas State Agricultural College
Lutkemeier, Carolyn Frances — *Frankfort, Ky.*
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* Lutz, Oscar E. — *Toledo, Ohio*
B.A., Michigan Teachers College

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B.A., Smith College

* McBride, Mildred Knox — *Joplin, Mo.*
B.S., Missouri University

* McCall, Fanny Virginia — *Hiawatha, Kans.*
B.A., University of Kansas

McCandless, Donald Sisson — *Davenport, Iowa*
B.A., University of Wisconsin

* McCarthy, Blanche Marie — *Madison*
B.A., University of Wisconsin

* McCaull, Mary Edna — *Kansas City, Mo.*
B.A., University of Illinois

McChristy, Laura Ellen — *Dodge City, Kans.*
B.A., Baker University

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B.A., Ohio Wesleyan University

* McCollum, Edgar DeBolt g — *Madison*
B.S., University of Wisconsin

* McCormick, Elizabeth Rosalia — *Superior*
B.S., Columbia University

* McCracken, Harlan Linneus g — *Madison*
M.A., Penn College

* McCrory, John Raymond g — *Fond du Lac*
B.A., University of Wisconsin

McCulloch, Laura Anna — *Medberry, N. Dak.*
B.A., University of North Dakota

* McCurdy, Katherine Wilson — *Wooster, Ohio*
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McLay, Christina Menzier — *Janesville*
B.S., University of Wisconsin
* McLean, Arthur Lloyd — *Westfield*
B.A., Carroll College
* MacLean, Chester Eugene — *Beloit*
B.A., University of Wisconsin
* McLeod, Roy Douglas — *Jamestown, N. Dak.*
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McManus, James Francis, Jr. — *Madison*
B.S., University of Wisconsin
McMillan, Isabel — *Omaha, Nebr.*
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* McNulty, Sadie Agatha — *Spring Green*
B.S., University of Wisconsin
McPherson, Maud Esther — *Washington, D. C.*
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* McQuillen, Everett Eugene — *Galveston, Texas*
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* Madden, Fannie, May — *Cincinnati, Ohio*
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* Manny, Theodore Bergen g — *Chicago, Ill.*
B.S., University of Illinois
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* Markham, Margaret Cornelia — *Manitowoc*
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* Meredith, Mamie — *Lincoln, Nebr.*
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* Meunier, Louis Marcel — *Galesburg, Ill.*
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* Meyer, Harvey Gustave — *Sheboygan*
B.A., University of Wisconsin
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* Milks, Helen Green — *Terre Haute, Ind.*
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* Miller, Harry Irl g — *Madison*
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Miller, J. Haynes — *North Pleasureville, Ky.*
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* Moore, Elizabeth Lowndes — *Parkersburg, W. Va.*
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Moore, Sylvester g — *Madison*
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O'Connor, Mildred — *Ironwood, Mich.*
B.A., University of Minnesota
* Oertel, Ernest Edward — *St. Louis, Mo.*
B.A., University of Washington
* Oertel, Nell M. — *St. Louis, Mo.*
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O'Laughlin, Eleanor Margaret g — *Madison*
B.A., University of Wisconsin
* Oldfather, Charles Henry — *Crawfordsville, Ind.*
B.A., Hanover College
Olmstead, Mabel — *St. Louis, Mo.*
M.A., Columbia University
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B.A., University of Wisconsin
Olson, Emery Evans g — *Los Angeles, Calif.*
M.A., University of Southern California

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B.A., University of Wisconsin

Olson, Lila Belle — *Madison*
Ph.B., University of Wisconsin

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B.A., University of Wisconsin

O'Quinn, Ora May — *Marlow, Okla.*
B.A., Baylor University

* Ottersen, Rudolf Hjalmar — *West Salem*
B.A., Concordia College

* Otterson, Joseph Orlando — *Madison*
B.A., University of Wisconsin

Outhouse, Meroe Jaynes — *Loup City, Nebr.*
B.A., University of Nebraska

Owen, Leona Frances — *Chicago, Ill.*
B.A., University of Wisconsin

Owens, Charles Elmer — *Corvallis, Oreg.*
B.A., Indiana University

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B.A., Lawrence College

Paddock, Frank — *Terre Haute, Ind.*
B.A., Indiana State Normal

* Pallett, Earl Manley — *Fennimore*
B.S., University of Wisconsin

Palisse, Jeanne Germaine g — *Chateauroux, France*
B.A., St. Mary's College

* Paras, Conrado M. — *Manila, P. I*
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* Parisius, Herbert William — *Watertown*
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Park, Josephina Elizabeth — *Syracuse, N. Y.*
B.A., Syracuse University

* Parr, Thad Curtis — *Greenwood*
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Parrott, Thelma Hall — *St. Louis, Mo.*
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* Parsons, Llewellyn Bradley g — *Madison*
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Parsons, Marjorie Chapin — *Elkton, S. Dak.*
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* Patton, Stella T. — *Madison*
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* Paulson, Leonard — *Chicago, Ill.*
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* Pease, Raymond Burnette — *Akron, Ohio*
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* Peck, Adelbert William — *Oshkosh*
B.A., Carroll College

Peck, Lucile Dehde — *Oshkosh*
B.S., Northwestern University

* Peckham, Caroline Serena g — *Ironton*
B.A., Lawrence College

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B.A., University of Wisconsin
Pederson, John Peter g — *Tunnel City*
B.S., University of Wisconsin
* Peet, Lillian Winnifred — *Grand Rapids, Mich.*
B.A., Hope College
Pegues, Boykin Witherspoon — *Baton Rouge, La.*
B.S., Louisiana State University
* Pence, Bertha Gertrude — *King City, Mo.*
B.S., University of Missouri
Pendleton, Laura Sophie — *Fond du Lac*
B.M., University of Kansas
Percival, Mary Black — *Kansas City, Mo.*
B.S., University of Missouri
* Perkins, Birdie Anna — *Newton, Kans.*
B.A., Colorado State Teachers College
Perley, Mary Elizabeth — *Fargo, N. Dak.*
M.A., University of Wisconsin
Perstein, Isadore Arnold — *Madison*
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* Pessel, Anna Marie Elizabeth — *Belleville, Ill.*
B.A., Illinois College
* Peterson, Clarence Theodore — *Dubuque, Iowa*
B.A., University of Dubuque
Peterson, Harold William — *Waupaca*
B.A., Carroll College
Peterson, Mary White mu — *Madison*
B.A., Wellesley College
Pettit, Irene S. — *St. Louis, Mo.*
B.A., Washington University
* Pettus, Shirley Gill — *Louisville, Ky.*
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* Phillips, Albert David — *Madison*
B.S., University of Wisconsin
Pieper, John — *Urbana, Ill.*
M.S., University of Illinois
* Piper, Clara V. — *Madison*
B.L., University of Wisconsin
Pitts, Mattie Berckhartt — *Yates, Mo.*
B.S., Warrensburg Teachers College
* Plank, Ruth Evelyn — *Pipestone, Minn.*
B.A., Hamline University
Plate, Emma — *Jersey City, N. J.*
B.A., Syracuse University
Platt, Constance — *Montezuma, Iowa*
B.S., Grinnell College
* Plenzke, Oswald Henry — *Menasha*
B.A., Lawrence College
* Pohle, Helen Loudora — *Madison*
B.A., University of Wisconsin

* Pohle, Marguerite Ruth — *Madison*
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* Pope, Mary Howe g, m — *Evanston, Ill.*
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Porter, Annie Augusta — *Excelsior, Minn.*
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Porter, Margaret Love — *New Britain, Conn.*
M.A., Columbia University
* Post, Julia Harriet — *Madison*
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Postel, Harold Hans — *Milwaukee*
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Postle, Clara Williamson — *Wapakoneta, Ohio*
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* Potter, Mildred Alleane g — *Stanley*
B.A., University of Wisconsin
* Powers, Maurice John g — *Astico*
B.A., (Equivalent) Columbia College
Prees, Reginald Lloyd — *Cambria*
M.D., University of Pennsylvania
* Prentiss, Marion Sara — *Milwaukee*
B.A., University of Wisconsin
* Prescott, Frank Williams — *Pittsfield, N. H.*
B.A., New Hampshire State College
Preston, Esther Anne — *Brodhead*
B.A., University of Wisconsin
* Priem, Lillian Arends — *Naperville, Ill.*
B.S., Northwestern College
Pye, Margaret — *Northfield, Minn.*
B.A., Carleton College
* Pyle, Sarah Idell — *Malcom, Iowa*
B.A., Grinnell College
Quam, George Norman — *Mansfield, S. Dak.*
B.A., University of South Dakota
* Radcliffe, Henry Herbert — *Decatur, Ill.*
B.A., Indiana University
* Ragatz, Lowell Joseph — *Madison*
M.A., University of Wisconsin
* Rahr, Louis Frederick — *Kenosha*
B.L., University of Wisconsin
* Raiya, Lynn Louis — *Beloit*
B.S., Michigan Agricultural College
Ramaker, Harvey John — *Cedar Grove*
B.A., Hope College
Rasmussen, James Peter — *Janesville*
B.A., Wittenberg College
* Reed, Agnes Helen — *Fulton, Mo.*
B.A., Lenox College
* Reed, Ellery Francis — *Fulton, Mo.*
M.A., Clark University
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* Reichel, Henry Christopher B.A., Eureka College	*Lewistown, Ill.*
* Reid, Duncan Harry g B.S., University of Wisconsin	*Montello*
* Reid, Mary Esson g B.A., University of Toronto	*Madison*
* Reik, Elsie I. B.S. Northwestern University	*Milwaukee*
* Rentsch, Anna Mary B.A., University of Pittsburgh	*Pittsburgh, Pa.*
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* Rhoades, Edith Moss B.A., Wellesley College	*St. Joseph, Mo.*
* Rhomberg, Marie Isabel B.A., St. Clara College	*Dubuque, Iowa*
* Rice, Grace B.A., Huron College	*Faulkton, S. Dak.*
Richardson, Essie Bishop B.A., Aurora College	*Aurora, Ill.*
Richardson, Frank Lee B.S., Northwestern University	*Evanston, Ill.*
Richardson, Leonard Townsend B.A., Aurora College	*Aurora, Ill.*
Richey, Tallmadge Archer Ph.B., Ohio State University	*Columbus, Ohio*
* Riegel, Florence Edna B.A., Lawrence College	*Neenah*
* Riehm, Lenual Smith g Ph.B., University of Wisconsin	*Milwaukee*
* Riesen, Helene B.A., Bethel College	*Hillsboro, Kans.*
* Riker, Albert Joyce g M.A., University of Cincinnati	*Columbus, Ohio*
* Riker, Olive Marie g B.A., Ohio State University	*Columbus, Ohio*
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Riordon, Hugh Leo M.A., University of Wisconsin	*Madison*
Risley, Lee Harrison B.A., Indiana University	*Dana, Ind.*
Robertson, Jean Marie B.A., University of California	*Lodi*
Robertson, Robert Crawford B.A., University of Illinois	*Coulterville, Ill.*
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Rodgers, Clarence Charles B.S., University of Missouri	*Madison*

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Rohde, Hulda Emelia — *Rock Island, Ill.*
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Rose, Jessie Perkins g — *Ashland, Oreg.*
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Rose, Sibyl Frances — *Rosedale, Kans.*
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* Rosenberger, Harry Emerson g — *Grinnell, Iowa*
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* Rosenthal, Edgar Phillip — *Oconto Falls*
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* Rosewarne, Nellie Lillian — *Decatur, Mich.*
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Rusk, Leota Beatrice — *New Albany, Ind.*
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* Russell, Mary Vangel g — *Madison*
B.S., University of Wisconsin
Ruth, Edith Johannah — *Superior*
B.A., University of Wisconsin
Ruth, Signa Mary — *Superior*
B.A., University of Wisconsin
Rutherford, Anna — *Clio, Mich.*
B.S., Michigan Agricultural College
* Rutledge, Mildred Virginia — *Alton, Ill.*
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B.A., Carroll College
* Saltus, Charles Napoleon — *Madison*
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Sanders, Isaiah Sumner — *Alcorn, Miss.*
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* Sands, David Richmond g — *Guelph, Ontario, Canada*
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* Sarao, Felix Bautista g — *Imus, Cavite, P. I.*
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Sargent, Louise — *Newport, N. H.*
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* Sauer, Elmer Ernst — *Watertown*
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Schaefer, Roland T. — *Watertown*
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Schaper, Ruth Caroline — *Plymouth*
B.A., Mission House College
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* Scheer, Raymond Ancil — *Atlanta, Ill.*
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* Schierz, Ernest Rudolf g — *Milwaukee*
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* Schimmelpfeng, Marie Danton — *Chicago, Ill.*
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Schlesinger, Rosa — *Farrell, Pa.*
B.A., Thiel College
* Schlueter, Rudolph John — *Watertown*
B.A., Northwestern College
Schmidt, Ray Otto — *Davenport, Iowa*
B.S., University of Wisconsin
* Schmitz, Henry Lanzen g, m — *Chicago, Ill.*
B.S., University of Chicago
Schneider, Virginia Sarah — *South Bend, Ind.*
B.A., Rockford College
Schneller, Lucille A. — *Arcadia*
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Schoenmann, Mathilde Christine — *Spring Green*
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Scholl, Mary Ann — *Rushville, Ind.*
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Schrenk, Clara Elsie — *Golconda, Ill.*
B.S. Monmouth College
* Schrenk, Walter Theodore g — *Madison*
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* Schubert, Arthur — *Madison*
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Schuler, Ann Gabrielle — *Milwaukee*
B.S., University of Wisconsin
Schuler, Catharine — *Milwaukee*
B.S., University of Wisconsin
Schuler, Dominic H. — *Milwaukee*
B.S., University of Wisconsin
* Schuler, Margaret Mary — *Milwaukee*
B.A., University of Wisconsin

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M.A., Ohio State University
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Schustedt, S. Charlotte — *Hibbing, Minn.*
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Schuster, Clara O. — *Chicago, Ill.*
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Schuyler, Edith Osgood — *West De Pere*
B.A., Washington Missionary College
Schwab, Mabel Lloyd — *Milwaukee*
B.A., University of Wisconsin
* de Schweinitz, Dorothea — *Philadelphia, Pa.*
B.A., Smith College
Schwenke, Edith Hopkins — *Marysville, Ohio*
M.A., Oberlin College
* Scott, Walter Alexander — *Beloit*
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Scoville, Willard Frances — *Ottawa, Kans.*
B.S., Ottawa University
Segelbaum, Rose — *Kansas City, Kans.*
B.A., Kansas University
* Sell, Mariana Theresa g — *Madison*
B.S., University of Wisconsin
Sellars, Clara E. — *Mooresville, Ind.*
B.A., Earlham College
Sessinghaus, Bertha Charlotte — *St. Louis, Mo.*
B.A., Washington University
* Severance, Luada Eleanor — *Wichita, Kans.*
B.A., Friends University
Shaw, Donald Buerkens — *Marshalltown, Iowa*
B.A., Simpson College
Shechter, Paulino — *New York City, N. Y.*
B.A., Hunter College
Shelley, Velma Esther — *Iola, Kans.*
B.A., B.S., University of Kansas
* Shellman, Ernest John — *Prentice*
B.A., University of Wisconsin
* Sheppard, Harriett White — *Philadelphia, Pa.*
M.A., Columbia University
Sherman, Jessica Louise — *Sioux Falls, S. Dak.*
B.A., Wellesley College
Shibli, Jabir — *Fargo, N. Dak.*
M.A., University of North Dakota
Shideler, Ernest Hugh — *Franklin, Ind.*
M.A., University of Chicago
Shindler, Ona Lela — *Brook, Ind*
B.M., DePauw University

Shipman, Gladys Elizabeth — *Madison, Ind.*
B.A., Moores Hill College

* Shire, Ann Matilda — *Kansas City, Mo.*
B.A., Kansas University

* Shortridge, Annalee — *Terre Haute, Ind.*
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M.A., University of Wisconsin

* Sichler, Ida Mary — *Alma Center*
B.S., University of Wisconsin

Simonds, Paul W. — *Madison*
M.S., University of Wisconsin

* Sims, Morrison g — *Brandon*
B.A., Ripon College

* Sinclair, Evelyn Mary — *Marion, Iowa*
B.A., Coe College

* Sister Mary Aquinas Devlin — *Sinsinawa*
M.A., University of Wisconsin

* Sister Celeste Miller — *St. Mary-of-the-Woods, Ind*
B.A., St. Mary of the Woods College

* Sister Mary Fabian Reilly — *Eagle Grove, Iowa*
B.S., Fremont College

* Sister Mary Hubertine Hart — *Madison*
B.A., University of Iowa

* Sister Mary Lambertina Doran — *Dubuque, Iowa*
B.A., DePauw University

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* Six, Marjorie — *Logansport, Ind.*
B.S., University of Wisconsin

* Skemp, Thomas Harry — *Winona, Minn.*
B.A., University of Wisconsin

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B.S., Oklahoma Agricultural and Mechanical College

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M.A., Trinity College

* Smith, Beatrice Kelsey — *Ada, Ohio*
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Smith, Daniel Du Pre — *Madison*
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Smith, Ernest Thomas — *Stevens Point*
B.A., Bowdoin College

* Smith, Guy Harold g — *La Farge*
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* Smith, Helen Forsythe — *Rochester, N. Y.*
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Smith, Helen Mary — *Wauwatosa*
B.S., University of Wisconsin

Smith, Marie — *Coushatta, La.*
B.A., Mississippi State College for Women

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M.A., University of Illinois

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Snell, Myla Cooke — *Kansas City, Mo.*
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* Snell, Sanford Stacey — *Kansas City, Mo.*
B.A., Oberlin College

* Snissen, Frieda van der — *Berne, Ind.*
B.S., Kansas State Agricultural College

Snow, Ava Ella — *Waldron, Mich.*
B.A., Hiram College

* Snow, Riley E. — *Liberty, Mo.*
B.A., William Jewell College

* Snyder, Earle Stanley g — *Kitchener, Ont., Canada*
B.S.A., Toronto University

Sobye, Louise Marie — *Stoughton*
B.S., Milwaukee-Downer College

* Soderstrom, Verna Irene — *Wichita, Kans.*
B.A., Friends University

Soecknick, Frieda Edna — *St. Louis, Mo.*
B.A., Washington University

* Sommer, Hugo Henry g — *Sheboygan*
M.S., University of Wisconsin

* Spain, Margaret Elliott — *Detroit, Mich.*
B.A., University of Michigan

* Spence, (Miss) Leslie g — *Madison*
M.A., University of Wisconsin

Spencer, Katherine Thomas — *Saxton, Mo.*
B.L., Christian College

* Spicer, Myrle Harrison — *Pardeeville*
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* Spieth, Benjamin Stephen — *Madison*
B.S., University of Nebraska

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B.A., Wells College

Staley, Ruth — *Springfield, Ohio*
B.A., Wells College

Stannard, Margaret Knowles — *Centerbrook, Conn.*
B.A., Beloit College

* Stauss, Walter Charlie — *Thiensville*
B.S., University of Wisconsin

* Steadman, Margaret Dick — *Madison*
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Stebens, Hertha Charlotte — *Valley Junction*
B.A., University of Iowa

* Steinert, Ella Helen — *Washburn*
B.A., Carroll College

* Stenerson, Gena Isabella — *Clermont, Iowa*
B.A., St. Olaf College

Steudel, Esther Mary — *Chilton*
B.A., University of Wisconsin

Stewart, Lois Katharine g — *Spearville, Kans.*
B.S., Kansas State College

Steyer, Ida Bertha — *Tarkio, Mo.*
M.A., University of Wisconsin

* Stinchfield, Sara Mae g — *Madison*
M.A., University of Iowa

* Stivers, Ernest DeRoy — *Auburn, Ala.*
B.S., Iowa State College

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M.A., Mount Holyoke College

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M.A., University of Wisconsin

* Stover, Wilmer Garfield — *Columbus, Ohio*
M.A., Miami University

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B.S., Montana State College

* Stroman, Govan N. g — *Uvalde, Texas*
M.S., University of Wisconsin

* Strong, Emma Vera — *Sterling, Kans.*
B.A., Cooper College

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* Struck, Louis Alfred — *Onalaska*
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Styles, Ardilla — *Brentford, S. Dak.*
B.A., Yankton College

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B.A., Wesleyan University

* Swenson, Severin — *Eau Claire*
B.A., St. Olaf College

* Swenumson, Oscar Siguart — *Sisseton, S. Dak.*
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Swink, Alma mu — *Farmington, Mo.*
B.A., Forest Park College

* Szeliski, Victor Spartan von — *Madison*
B.A., University of Wisconsin

* Tanghe, Walter Joseph — *Milwaukee*
B.A., Carroll College

* Tasche, Leslie William g. m — *Sheboygan*
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B.S., Missouri State Normal School
* Taylor, Edward Gordon g — *Madison*
B.S., Massachusetts Institute of Technology
Taylor, Elsa Shepherd — *Berryville, Ark.*
B.A., Washburn College
Taylor, Elsie Elizabeth — *Madison*
B.A., University of Wisconsin
Taylor, Mary Carolyn — *Avalon*
B.A., Milton College
* Teeters, Olive Anne — *Omaha, Nebr.*
B.A., Nebraska State University
* Templeton, Hugh Longwill g — *Lima Center*
B.A., University of Wisconsin
* Teodoro, Nicanor G. g — *Laguna, P. I.*
M.S., University of Wisconsin
* Thayer, Vivian Trow g — *Madison*
M.A., University of Wisconsin
* Thollehaug, Olaf K. — *Sisseton, S. Dak.*
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Thompson, Elizabeth Ellen — *Tarkio, Mo.*
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Thompson, Hazel Emma — *Parsons, Kans.*
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Thompson, Lowell Dee — *Salem, Iowa*
B.S., Iowa Wesleyan College
* Thompson, Walter — *Madison*
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* Thoreen, Edna Amelia — *Galesburg, Ill.*
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Thorngate, George — *Exeland*
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Tiedjens, Victor Alphons g — *Marinette*
B.S., University of Wisconsin
Tiffany, Deedie — *Antioch, Ill.*
B.S., University of Illinois
* Tillman, Arthur George — *La Crosse*
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Tillotson, Doris Lucille — *Fargo, N. Dak.*
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Tippet, Walter P. — *Appleton*
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Tipple, Florence Estelle — *Oregon*
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* Tsow, Zen Yun — *Szechuen, China*
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Tucker, Robert Hewitt — *Chicago, Ill.*
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Walden, Clarence Dayton — *Portsmouth, Ohio*
B.A., Miami University
* Walker, Louisa V. g — *Madison*
M.A., Columbia University
Walker, Marion Newman g — *Anderson, S. C.*
B.S., Alabama Polytechnic Institute
* Walker, Zella Louise — *Pontiac, Mich.*
B.A., University of Michigan
* Wallace, Raymond Randall — *Enfield, Ill.*
B.S., Illinois College
Wanless, Margaret Jane — *Louisville, Ky.*
M.A., University of Louisville
* Ward, Audley Hoffman — *Darlington, S. C.*
B.S., Clemson College
Warmoth, Ray — *Mooresville, Ind.*
B.A., Indiana State Normal
Warner, Nellie — *Madison*
Ph.B., University of Wisconsin
* Warrick, Ennis Champ — *Wilberforce, Ohio*
B.A., University of Wisconsin
Weaver, Vesta Belle — *Henry, Ill.*
B.A., University of Illinois
Weber, Edna Harriett — *New Holstein*
B.A., University of Wisconsin
* Weber, George Frederick g — *Madison*
M.S., University of Wisconsin
* Weber, Harry Franklin — *Sterling, Ill.*
B.S.A., Goshen College
* Weeks, Mary Elvira — *Oshkosh*
M.A., University of Wisconsin
* Wegmann, Linda Hattie — *Milwaukee*
B.A., Milwaukee Downer College
* Wehrwein, George Simon g — *Madison*
M.S., University of Wisconsin
* Weihe, Raymond Guthard — *Milwaukee*
B.A., University of Wisconsin
Weiler, Isabel — *Hastings, Minn.*
B.A., Carleton College
Weinberg, James Arthur — *Lonaconing, Md.*
B.A., Johns Hopkins University

* Weingartner, Harry Albert B.S., University of Wisconsin	*Livingston*
Weiss, Lester Oliver B.S., College of Wooster	*Dundee, Ohio*
Weiss, Nicholas John Ph.B., College of Wooster	*Dundee, Ohio*
Weld, Elisabeth Phelps B.S., Michigan Agricultural College	*Lansing, Mich.*
* Welsh, Lucy B.A., University of Wisconsin	*Milwaukee*
* Welty, Mary Estella Ph.B., College of Wooster	*Portsmouth, Ohio*
Wenger, Savilla M. B.A., Goshen College	*Wakarusa, Ind.*
Wenrich, Frances Christine M.A., University of Kansas	*Lawrence, Kans.*
* Wenzelmann, Ruth Naomi B.S.,Knox College	*Galesburg, Ill.*
* Westlake, Nancy Pearl B.A., University of Missouri	*Columbia, Mo.*
* Wetzel, Janetta Elizabeth B.S., Rockford College	*Rockford, Ill.*
Weygold, Frieda Sophia B.A., University of Louisville	*Louisville, Ky.*
* Whaley, Carroll Omar B.A., University of Wisconsin	*Janesville*
Wheelock, Ellen Pauline Ph.B., University of Wisconsin	*Westfield*
* White, Elizabeth B.A., Monmouth College	*Coulterville, Ill.*
* White, Olive Geraldine B.A., Albion College	*Union Mills, Ind.*
Whitham, Jessie Isabel B.S., Columbia University	*Detroit, Mich.*
Wiberg, Ella Lydia B.S., University of Missouri	*Kansas City, Mo.*
Wickham, Mal B.A., Knox College	*Janesville*
* Wied, Katherine MacMurtery B.A., University of Wisconsin	*Waupaca*
Wiles, Bertha Harris M.A., University of Wisconsin	*Kansas City, Mo.*
Will, Evadne Belle B.A., Carroll College	*Denison, Kans.*
Williams, Anna Waller M.A., University of Illinois	*Boulder, Colo.*
Williams, Edwina Frances Ph.B., University of Chicago	*Delavan*
Williams, Ethel St. Clair B.A., Colorado Teachers College	*O'Fallon, Mo.*
Williams, Ethelberta B.L., University of Michigan	*Grand Rapids, Mich.*

* Williamson, Ralph — *Grand Rapids, Mich.*
B.A., University of Minnesota
* Williamson, Robert Vernon g — *Madison*
M.S., University of Wisconsin
* Willsey, Reta Harriet — *Minnewaukan, N. Dak.*
B.A., St. Olaf College
* Wilson, Elizabeth Nancy — *Keokuk, Iowa*
B.S., University of Wisconsin
* Wilson, George Pickett g — *Sondan, Va.*
M.A., Columbia University
* Wilson, Helene Elizabeth — *Superior*
B.A., University of Wisconsin
Wilson, James Alexander — *Stillwater, Okla.*
B.S.A., University of Minnesota
* Wilson, John Lewis — *Jamestown, N. Dak.*
B.A., Jamestown College
Wilson, Ruth Ellen — *Rockford, Ill.*
B.S., Rockford College
Winn, Robert Dickson — *Two Rivers*
B.A., Lawrence College
* Winner, Harry Ellsworth — *Pittsburgh, Pa.*
Ph.B., Grove City College
* Wise, Carl T. — *Duluth, Minn.*
Ph.B., University of Wisconsin
Wittman, Gerda Pauline — *Merrill*
B.A., Lawrence College
Wolf, Clara Laura — *Little River, Kans.*
B.S., Fort Hays Kansas Normal
* Wolf, Lorelle Arthur g — *Madison*
B.A., University of Wisconsin
* Wood, Anna Maria — *Columbus, Ind.*
B.A., Indiana State Normal
* Wood, Ella Lucille — *Berlin*
B.A., Milwaukee Downer College
* Wood, Lewis Hungerford — *Sioux City, Iowa*
B.S., University of Illinois
Wood, Ralph g — *Elyria, Ohio*
B.A., Ohio Wesleyan University
Woods, Maude — *Bottineau, N. Dak.*
B.A., University of North Dakota
Woodside, Edna Elizabeth — *Middlefield, Ohio*
B.A., Waynesburg College
* Working, Holbrook — *St. Paul, Minn.*
B.A., Cornell University
* Worrell, Anna — *Ogden, Pa.*
B.A., Swarthmore College
* Wright, Marie Olive — *Toledo, Ohio*
B.A., University of Michigan
Wright, Ruth Bradford — *Medina, Ohio*
B.S., Baldwin-Wallace College
Wright, Sarah Vial — *Highland Park, Ill.*
B.A., University of Illinois

* Wright, Stillman g — *Berlin*
B.S., Beloit College
Yang, Tien-Shou — *Tientsin, China*
B.A., Lawrence College
* Yeh, Yuan-Lung g — *Chuchow, China*
B.A., University of Wisconsin
* Yoke, John Jonathan g — *Acton, Ind.*
B.S., University of Illinois
Youmans, Corren Pinckney — *Miami, Fla.*
B.S., Clemson Agricultural College
Youmans, Edwin Scott — *Fond du Lac*
B.A., Ripon College
Young, Albert Gayland g, m — *Denver, Colo.*
D.V.M., Colorado Agricultural College
* Young, Blanche Nora — *Toledo, Ill.*
B.S., James Millikin University
* Young, Lucy Marie — *Brockton, Mass.*
Ph.B., Brown University
* Young, Winifred — *Kansas City, Mo.*
B.A., Kansas Wesleyan University
* Zacher, Ruth Elizabeth — *St. Louis, Mo.*
B.A., Washington University
* Zeisler, Emma Louise g — *La Crosse*
B.A., Milwaukee-Downer College
Zeuch, William Edward g — *Hopkinton, Iowa*
M.A., Clark University
* Zinn, Zea — *Milton*
B.A., Milton College

UNDERGRADUATES AND TEACHERS

Letters and Science

Aagesen, Nicholas Schuyler ls — *Milwaukee*
Abaly, Mae Estella ls — *Madison*
Abrams, Dell Mercedes — *Streator, Ill.*
Adams, Margaret Joshephine — *Sioux City, Iowa*
Addington, Lois ls — *Osage, Iowa*
Adelt, Gertrude Ellen ls — *Kenosha*
Adkins, Marcia Lee — *Cincinnati, Ohio*
Adler, Ruth Gertrude — *Chicago, Ill.*
Adolphson, Svea Mathilda ls — *Edgerton*
Affeld, Christina McDonald ls — *Evanston, Ill.*
Agnew, Agnes Jeannette — *Rockford, Ill.*
Ahern, Dorothy Frances ls — *Fond du Lac*
Ahlbrand, Carl Ephriam — *Seymour, Ind.*
Albrecht, Karl Albert ls — *Appleton*
Albrecht, Louis John — *Kewaunee*
Albrecht, Marie R. Carmen — *San Antonio, Tex.*
Alcott, Leila Della — *Platteville*
Alexander, Eliza Jane — *Lake Mills*

Alleman, Clarence Conrad	*La Crosse*
Allen, Clara Louise	*Fostoria, Ohio*
Allen, Dorothy ls	*Indianapolis, Ind.*
Allen, Dorothy Longley	*Des Plaines, Ill.*
Allen, Harry Robert	*Harrisburg, Pa.*
Allen, Julia Christian ls	*Oshkosh*
Allen, Mame	*Kansas City, Kans.*
Allen, Rowena Elizabeth	*Amherst*
Allyn, Louise ls	*Madison*
Altpeter, Ophelia Anna	*Milwaukee*
Alverson, Albert Hale	*Rockford, Ill.*
Anda, Edith Marie	*Chicago, Ill.*
Andersen, Olga Fredrika ls	*Madison*
Anderson, Emma Mathilda	*Duluth, Minn.*
Anderson, Gayle	*St. Louis, Mo.*
Anderson, Harold Theodore	*Galesburg*
Anderson, Jennie Hazel	*Black River Falls*
Anderson, Mabel Florence	*Black River Falls*
Anderson, Oscar Walter	*Rockford, Ill.*
Anderson, Ottilia Christina	*Madison*
Anderson, Paul Cornelius	*Chicago, Ill.*
Anderson, Perry George ls	*Edgerton*
Anderson, Victor C. ls	*Oshkosh*
Anderson, Viola Myree	*Pulaski*
Andrews, Ethel V.	*Lansing, Mich.*
Andrews, Lale Clark	*Kansas City, Mo.*
Andrews, Sybil Elizabeth	*Hebron, Ill.*
Anspach, Charles Jacob	*Milwaukee*
Apfelbaum, Roland S.	*Fort Wayne, Ind.*
Aplin, Howard Alfred	*Dousman*
Applebaus, William Edward	*Louisville, Ky.*
Armbrecht, Prescott William	*Madison*
Armstrong, Myrta	*Toledo, Ohio*
Arnold, Ethel Louise	*McLean, Ill.*
Arohson, David	*Chicago, Ill.*
Arvidson, Oscar Frederick ls	*Marinette*
Ascano, Antonio Francisco ls	*Cagayun, P. I.*
Asher, Mabel	*Indianapolis, Ind.*
Askew, Vernon Byron	*Donovan, Ill.*
Aspinwall, Robert Abbott ls	*Fort Atkinson*
Astell, Mollie ls	*Madison*
Aten, Helen Harper ls	*Madison*
Atkins, Mary Wallace	*Kansas City, Mo.*
Auerswald, Edgar Henry ls	*Cochrane*
Ault, Arthur Ray	*Evanston, Ill.*
Aurand, Tillie Mae	*Shannon, Ill.*
Austin, Allen Sunday	*Milwaukee*
Austin, Clarke Albert ls	*Madison*
Axtell, Dorothy Marie ls	*Evansville*
Axtell, Victor Vern ls	*Madison*
Baar, Florence	*Sheboygan Falls*
Babcock, Grace	*Cumberland*
Babcock, Viola Lucretia	*Minneapolis, Minn.*

Bach, Mark John	*Milwaukee*
Bachstrom, Frances Mable	*Kansas City, Mo.*
Bacon, Dorothea	*St. Joseph, Mo.*
Bacon, Louise	*Lilly, Ill.*
Badenoch, Helen Isabelle	*Evanston, Ill.*
Baer, Charlotte Elizabeth	*Dayton, Ohio*
Baetke, August Philipp	*Boyden, Iowa*
Bahr, Marie Alice	*Berlin*
Baier, Arthur Henry	*Cleveland*
Bailey, Floyd Addison ls	*Baraboo*
Bailey, Paul Edward ls	*Menomonie*
Bailie, Florence E. ls	*Lancaster*
Baird, George Walter	*Hixton*
Baker, Ellen Smith e	*Evansville*
Baker, Florence Jane	*Princeton, Ind.*
Baker, Hazel Eleanor	*Crystal Lake, Ill.*
Baker, Minnie M.	*Hickman Mills, Mo.*
Baker, Teresa Mary	*Janesville*
Balch, Harry William ls	*Madison*
Ballam, George Alfred ls	*Madison*
Bamford, George Joseph	*Plymouth*
Bangsberg, Oranda Cecelia	*La Crosse*
Banker, Louis Curtis	*Richland Center*
Barlow, Charles W. Jr.	*Chicago, Ill.*
Barnes, Barbara	*Rockford, Ill.*
Barnes, Harry George	*Campbell, Minn.*
Barnes, Jane May	*Grand Rapids, Mich.*
Barney, Tyler Davis ls	*Sparta*
Barnum, Vera Maude	*Dwight, Ill.*
Barry, Linda Elizabeth	*Baraboo*
Bartel, Ida Elizabeth	*Richmond, Ind.*
Bartelt, Frank Otto	*Clinton*
Bartholomew, Florence Neva	*Beloit*
Bartlett, Jessie	*Chicago, Ill.*
Bartley, Joy M.	*Horton, Kans.*
Barto, Lena Catherine	*Spring Valley, Ill.*
Barton, Helen Margaret ls	*Ypsilanti, Mich.*
Bassett, Hazel Margaret	*Dubuque, Iowa*
Bast, Elsie Caroline	*Sheboygan*
Batchelder, Edna Adaline	*Chicago, Ill.*
Bates, Angeline Nixon	*Indianapolis, Ind.*
Bathke, Erwin Charles	*Oshkosh*
Battles, Graham ls	*Peoria, Ill.*
Batz, Zita Barbara	*Sun Prairie*
Bauman, George Alexander ls	*Oshkosh*
Baumann, Vera Anne	*Milwaukee*
Baumle, Ben ls	*Milwaukee*
Bauserman, Nellie Kate	*Denver, Colo.*
Beadle, Gladys Retta	*Millville*
Bean, Adella Emma	*Erie, Pa.*
Bean, Violet Elizabeth	*Blue Mound, Ill.*
Beatty, Alice Cotton ls	*Birmingham, Ala.*
Beaumont, Ferne Irene	*Pontiac, Mich.*

Beck, Albert Fred	*Arcadia*
Beck, Dorothy Clement	*Cincinnati, Ohio*
Becker, Mona Blanche	*Wausau*
Becker, Paul Gustav l	*Wilmont, Minn.*
Beeckler, Pearle Grace	*Granton*
Bell, Elizabeth Frances	*Chicago, Ill.*
Bell, Willie	*Kansas City, Mo.*
Bendeke, Elsa Elizabeth ls	*Manitowoc*
Benner, Gertrude	*Kansas City, Mo.*
Bennett, DeWitt William	*Rockford, Ill.*
Bennett, Doris Louise ls	*Madison*
Bennett, Johnson ls	*Chicago, Ill.*
Benson, Fern Katherine	*Stanley*
Bent, Henry Edward	*Oglesby, Ill.*
Berg, Arthur Eldridge	*Detroit, Mich.*
Berger, Adolphus Arthur ls	*St. Joseph, Mo.*
Berger, Elsa	*Milwaukee*
Berger, Walter Jesse	*Sheboygan*
Bergh, Carla Jeannette	*Westby*
Berry, Esther Mary	*Milwaukee*
Bertram, Grace Ione	*Belleville, Ill.*
Best, Margaret M.	*Port Washington*
Betz, Lillian Pauline	*Eau Claire*
Betzer, Althea, Elizabeth ls	*Kenosha*
Bhushan, Vidiya	*Roorki, India*
Blanco, Tony Joseph ls, m	*Spooner*
Blerer, Edward William	*Madison*
Biggs, Ella May	*Minong*
Bilstad, Gwendolyn Warne ls	*Cambridge*
Bink, Edward Nicholas	*Elkader, Iowa*
Binninger, Bertha	*Indianapolis, Ind.*
Binninger, Freda Theresa	*Indianapolis, Ind.*
Birdsall, Grace Lenore	*Swan Creek, Ill.*
Birkett, Alice	*Washington, Ill.*
Birkett, Lloyde William ls	*Hazel Green*
Birong, Loraine Anna ls	*Madison*
Bischoff, Clifford Edward ls	*Superior*
Bishop, Bernice Olive	*Portland, Ind.*
Bishop, Florence Marion ls	*Arcadia*
Bistorius, Mildred Ruth	*Milwaukee*
Bjornson, Marion L. ls	*La Moure, N. Dak.*
Blachly, Doris Mary	*North Freedom*
Blackmore, Ida Ethel	*Omaha, Nebr.*
Blackwood, Helen Russell	*Huntington, W. Va.*
Blade, Selma	*Milwaukee*
Blain, Lucy Georgia	*Streator, Ill.*
Blair, Gertrude Lucile	*Hazel Green*
Blair, Walter Borden ls	*Plainfield*
Blakeley, Mildred Lucille ls	*Evansville*
Blakeman, Robert Irvine ls	*Indianapolis, Ind.*
Blanchar, Ora Adelia	*Milwaukee*
Blanchette, Alvena Mary	*Anoka, Minn.*
Blankenheim, Helmae Marcelle	*Verona*

Blashfield, Floyd Artwill	*Boscobel*
Blatter, Erwin Walter ls, m	*La Crosse*
Blaul, Laura ls	*Burlington, Iowa*
Blazer, Margaret Munro	*Beloit*
Bliss, Sidney Howard ls	*Janesville*
Block, Martha Helene g	*Madison*
Bloodgood, Francis Joseph ls	*Milwaukee*
Blossom, John Dickson ls	*Peoria, Ill.*
Blount, Eleanor	*Western Springs, Ill.*
Blum, Albert Edward ls	*Monticello*
Boarman, Berenice	*Kansas City, Mo.*
Bodden, Flora Jeannette ls	*Menasha*
Bodenstein, Margaret Frances	*Madison*
Bodger, Mary Effie	*Princeton, Ind.*
Boerner, Gladys Marie ls	*Milwaukee*
Boester, Lucile Marcella	*Milwaukee*
Boies, Lawrence Randall, ls, m	*Minneapolis, Minn.*
Boland, Jessie Mary	*Auburn, Ind.*
Boland, Kathryn Mary	*Townsend*
Bonham, Claude Delmar	*King City, Mo.*
Boning, Herbert Edward, Jr. ls	*Milwaukee*
Bonslett, Edward William ls	*Woodstock, Ill.*
Bonslett, Mary C.	*West McHenry, Ill.*
Bonzelet, Gertrude Louise ls	*Madison*
Borden, Leighon Charles ls	*Milwaukee*
Borman, Milton Carter ls, m	*Oshkosh*
Boso, Thelma Hazel	*Bloomington, Ill.*
Bostwick, Richard Howe	*Chardon, Ohio*
Botsford, Frances R.	*Platteville*
Bottin, Lulu Mae	*Boscobel*
Bowles, Helen Edith ls	*Chicago, Ill.*
Bowman, Blanche May	*Rockford, Ill.*
Bowman, Elizabeth Stone	*St. Louis, Mo.*
Boy, Helen Anna	*Madison*
Boyce, Lloyd M. ls	*Milwaukee*
Boyer, Marie Alice	*Erie, Pa.*
Brach, Henry G.	*Mukwonago*
Bradle, Leo James	*Laona*
Bradley, Nina E.	*Ripon*
Bradshaw, Bess	*Milwaukee*
Brady, Grace Marie	*Bancroft*
Bram, Harriet Mary	*Detroit, Mich.*
Bramberg, Rudolph William	*Champaign, Ill.*
Bransfield, Mary Ellen	*Chicago, Ill.*
Braun, Mervyn ls	*Milwaukee*
Bray, Nella Fay	*Waynesville, Ill.*
Bredesen, Philip Gunerius ls	*Beloit*
Breen, Edward Joseph	*Fort Dodge, Iowa*
Breese, Jennie Hanes	*Lima, Ohio*
Brewington, Russell Dumas l	*Madison*
Breyvogel, Allie Lloyd ls	*Brodhead*
Bridge, Helen Rhea	*Galena, Ill.*
Bridgman, Alma Louise ls	*Waupaca*

Bridgman, Mary Fawcett ls	*Stanley*
Brigham, Elisabeth Townsend	*Wauwatosa*
Brock, Hannah Laura	*Kansas City, Mo.*
Brockhaus, Martha Anne	*Fort Atkinson*
Brodt, Cecil DeWitt ls	*Rice Lake*
Bronson, Carl Evans ls	*Spencer, Iowa*
Bronson, Ethel Lucille	*Chicago, Ill.*
Brook, Alma Pochler	*Burlington, Iowa*
Brooks, Adele Richards	*Kenilworth, Ill.*
Brooks, Warren E.	*De Pere*
Brown, Clarence Baxter ls, m	*Highland*
Brown, Florence Isabel	*Lorimon, Iowa*
Brown, Fred Eugene	*Arena*
Brown, Isabel	*Chicago, Ill.*
Brown, Jessie Myrle	*Minneapolis, Minn.*
Brown, Josephine Ruth	*Chetek*
Brown, Lula	*Pittsburg, Kans.*
Brown, Marie Belle	*Hartland*
Brown, Rowena Ruth ls	*Madison*
Brown, Theodore Taggart ls	*Madison*
Brown, Thomas Kenneth g, m	*Waupun*
Brown, Virgil Spencer	*Edgerton*
Browne, Margaret	*Topeka, Kans.*
Brownell, Mary Alice ls	*Madison*
Brownrigg, Clara A. ls	*Merrimac*
Bruce, Marshall Everett	*East St. Louis, Ill.*
Bruce, Violet Grace Wellbourne	*Madison*
Bryan, Robert	*Gaston, Ind.*
Bryant, Hazel Melba	*Madison*
Bryant, Mildred Leigh ls	*Wauwatosa*
Bubolz, Richard Charles	*Seymour*
Buchanan, William Eugene	*Appleton*
Buchheimer, Edward Henry	*St. Louis, Mo.*
Buckmaster, Dean Albert	*Kenosha*
Buel, Estelle Marie	*Lakewood, Ohio*
Buell, Harold Clark ls	*Lake Geneva*
Bull, Verda	*Allerton, Iowa*
Bump, Warner Smith	*Wausau*
Bunzey, Elfie	*Kankakee, Ill.*
Burchard, Anna Letitia	*Kansas City, Mo.*
Burdeau, John Gwathmey	*St. Louis, Mo.*
Burgess, Helen Josephine	*Madison*
Burgess, Nella M. ls	*St. Louis, Mo.*
Burke, Helen Cecelia	*Kansas City, Mo.*
Burke, Joseph Peter	*Ashland*
Burke, Margery Elizabeth	*Erie, Pa.*
Burke, Richard John ls	*Madison*
Burkhardt, Leona Florence ls	*Burkhardt*
Burkman, Viola Mae	*Roscoe, Ill.*
Burnes, Harriet Clare	*Racine*
Burnett, Bess Burkholder	*Kalamazoo, Mich.*
Burns, Johanna	*Indianapolis, Ind.*
Burrows, Ben H.	*Boardman*

Burst, William	*Chicago, Ill.*
Burthe, Harvey Jerome	*Deerfield*
Burwell, Amelia ls	*Madison*
Burwell, Consuelo ls	*Madison*
Bushnell, Theron Brewster	*Evanston, Ill.*
Bussan, Urban George	*Cuba City*
Busse, Warren Froemming ls	*Algoma*
Bussey, Frederick Newton ls, m	*Chicago, Ill.*
Buswell, Irma ls	*Kendall*
Butler, Agnes Irene	*Eau Claire*
Butler, Marian ls	*Appleton*
Butterbrodt, Alida Augusta	*Beaver Dam*
Button, Helen Louise	*Nicholson, Pa.*
Butts, Robert Paddock ls	*Springfield, Ill.*
Butts, Stanley Van Dyke	*Tomah*
Byram, Margery Allen	*Harrisonville, Mo.*
Cadogan, Katherine	*Quincy, Ill.*
Cain, Jean Augusta	*Elkhorn*
Caldwell, Grace Morse	*Cleveland, Ohio*
Caldwell, Jessie Florence	*Madison*
Calkins, Frances Willard	*Alpha, Ill.*
Callahan, Julia Tormey ls	*Madison*
Caluwaert, Evrard Charles ls	*Madison*
Camp, Mino	*Stroh, Ind.*
Campbell, Arch Phelps ls, m	*East Ellsworth*
Campbell, Cleo C. ls	*Glencoe, Ill.*
Campbell, Everett Lowell ls, m	*Madison*
Campbell, Frances Wadsworth ls	*Madison*
Campbell, Fred	*Tulsa, Okla.*
Campbell, Maud	*Newton, Iowa*
Canary, Helen Juanita	*Chicago, Ill.*
Cance, Gladys Fern ls	*Madison*
Canuteson, Ralph Irving ls	*Madison*
Capp, Theresa Irene	*St. Joseph, Mo.*
Cappon, Irene E.	*Milwaukee*
Cardiff, Joseph Burton ls	*Oshkosh*
Cardin, John Jacob	*Benton*
Cardinal, Eva Mary	*Beacon, Mich.*
Carew, Alvin Dennis	*Fish Creek*
Carey, Leon Austin ls	*Marion*
Carey, Mary Frances	*Rutherford,N. J.*
Carlson, Bonita Grace ls	*Oshkosh*
Carlson, Paul Adolph	*Whitewater*
Carmody, Marian Gwendolyn	*Mount Hope*
Carpenter, Earl Eugene	*Superior*
Carr, Frances	*La Fayette, Ind.*
Carroll, Charles Kinzie ls	*Richland Center*
Carson, Marjory Ray	*Oxford, Ohio*
Carter, Lurene	*Beloit*
Carver, Horace Jones	*Milwaukee*
Casserly, Raymond James ls	*Madison*
Cattau, Esther Margaret	*Shawano*
Catton, Ione	*Charlevoix, Mich.*

Cauffman, Jeannette Freda	*Three Rivers, Mich.*
Cavanaugh, Dorothy Mary ls	*Chrystal Falls, Mich.*
Cawley, Regina ls	*Wausau*
Ceaser, Carl Frederick ls	*Boise, Idaho*
Cecil, Laura Rose	*Oconto*
Chainey, Gladys Claudia	*Florence*
Chalfant, Herschel Herbert	*Gaston, Ind.*
Chambers, Carrie Ethel	*Chicago, Ill.*
Chang, Hwei Lou ls	*Shanghai, China*
Chang, Sientuh	*Shanghai, China*
Chao, Yang Fue	*Sansi, China*
Chapin, Daisy Winefred	*Winslow, Ill.*
Chapin, Mary Ada	*Decatur, Ill.*
Chapin, Olive Katherine	*Evansville*
Chapman, John Van Liene	*Danville, Ill.*
Chapman, Katharine Fay ls	*Platteville*
Chapman, William Albert	*St. Louis, Mo.*
Chassee, Eva May	*Muskegon, Mich.*
Chassee, Leo Jeannot ls	*Madison*
Chen, Tsung ls	*Foochow, China*
Cheng, Hurtin T. T. ls	*Peking, China*
Chipman, Mabel W.	*Redgranite*
Chisholm, Margaret	*Madison*
Christensen, William Charles ls	*Madison*
Christianson, Emma Marie	*Stanley*
Christie, Mary Shirra	*Waterloo, Iowa*
Chu, Chi Hwang ls	*Shansi, China*
Church, Carl Adelbert ls	*Madison*
Cirlin, Marcus Bernarr	*Chicago, Ill.*
Clark, Charlotte Hamilton	*Hibbing, Minn.*
Clark, Donald Henry ls	*Madison*
Clark, Edith Lucile	*Stella, Nebr.*
Clark, Emma Farmer	*Louisville, Ky.*
Clark, Freda Alberta	*St. Louis, Mo.*
Clark, Grace	*Ottumwa, Iowa*
Clark, Helen Harris ls	*Williston, Vt.*
Clark, John Anthony ls	*Manitowoc*
Clark, Marion Eugene ls, m	*Indianapolis, Ind.*
Clark, Ralph William ls	*Madison*
Clark, William Edward	*South Milwaukee*
Clarke, Isabella Jane	*Kansas City, Mo.*
Clarke, Mary Leonissa	*Superior*
Clauson, Elizabeth Bertha ls	*Bloomer*
Clay, Cary Field	*Paris, Ky.*
Cleary, Margaret Elizabeth	*Milwaukee*
Clemens, Violet Marie ls	*Superior*
Clough, Doris Harriet	*Oshkosh*
Clymer, Nora Ellen	*Lindsey*
Cnare, Rose Francisca	*Madison*
Coats, Amy Lindemuth	*Detroit, Mich.*
Cobbs, Jessie N.	*Nowata, Okla.*
Cochrane, Helen Marie	*Danville, Ill.*
Cohen, Theresa T.	*Chicago, Ill.*

Colt, Lew Garrison	*Hudson*
Colby, Amy Sophia	*Greenwood*
Coldren, George Tracy	*Washington, D. C.*
Cole, Emerson Harmon ls	*Madison*
Cole, Irene Alice	*Townsend*
Coleman, Joseph Carroll ls	*Janesville*
Coleman, Louise Barrey	*Clear Lake*
Collins, Clarence Jackson	*Champaign, Ill.*
Collins, Helen Marie	*Chicago, Ill.*
Collins, John Carleton ls	*Madison*
Cone, Hattie Belle	*Marshall*
Conger, Lester William ls	*Greenbush*
Conklin, James Bergen	*Madison*
Conklin, Margaret Griselle ls	*Madison*
Conklin, Virginia Teresa ls	*Madison*
Conlee, Ruth Isabelle ls	*Madison*
Conley, Henry Harold	*Cazenovia*
Conley, Paul Bernard l	*Darlington*
Connett, Harry Fred	*Mondovi*
Connolly, Agnes Loftus	*Colo, Iowa*
Conrad, Clifford Dewey	*Baldwin*
Conway, Anna Dolores	*Detroit, Mich.*
Cook, Olive Frances	*Sun Prairie*
Coombs, Anna Martha	*Salem, Ind.*
Corbett, Kenneth Hughes a	*Appleton*
Corbin, Helen Genevieve	*Grand Rapids, Mich.*
Corcoran, Margaret Mary	*Springfield, Ill.*
Corley, Martha Eva ls	*Madison*
Cornelius, John Church ls	*Madison*
Coronna, Helene Marie	*Madison*
Corriveau, Allen L. ls	*Port Edwards*
Costello, Lorenz ls	*Eau Claire*
Costerison, George Wesley	*Richland Center*
Coulter, Helen Ruth	*Ashley, Ill.*
Countryman, Avis Frances	*Madison*
Courtney, Kathryn	*Madison*
Cover, Louise Anna ls	*Johnstown, Pa.*
Cowden, Rachel	*Red Cloud, Nebr.*
Cowie, Allen John	*Superior*
Cox, Elizabeth Jean	*Madison*
Cox, Sam James	*Ingomar, Mont.*
Crabtree, Rodger Cooke ls	*Milwaukee*
Crahan, Queenie Gertrude	*Bloomfield, Nebr.*
Craig, Mildred Frances	*Pittsburgh, Pa.*
Cramer, Lawrence William ls	*Milwaukee*
Crane, Eugene Edward ls	*Chippewa Falls*
Cravath, Mary Bell	*Whitewater*
Crawford, Harry Arnold	*East Peoria, Ill.*
Crawford, Mary	*Jonesboro, Ill.*
Criswell, Elnora Rousseau	*Dallas, Tex.*
Crodian, Jessie Paul	*Bainbridge, Ind.*
Crook, Dorothy Dee	*Madison*
Croskey, Marguerite Isabel	*Madison*

Crow, Thomas William a	*Platteville*
Crum, Elinor	*Charlestown, Ind.*
Crummey, Mabel Lucille ls	*Madison*
Crysler, Rose Ruth	*Detroit, Mich.*
Culver, Lucian Glen g, m	*Eau Claire*
Cuneo, Veronica Ursula	*Chicago, Ill.*
Cunningham, Leonard L. ls	*Beaver Dam*
Curley, Agnes Loretta	*Terre Haute, Ind.*
Curley, K. Rosamond	*Terre Haute, Ind.*
Currier, Edward Haines ls	*River Falls*
Curtis, Ethel Mae	*Cambridge*
Curtis, Ina Leila	*Portage*
Curtis, Lucile ls	*Madison*
Curtiss, Fred Willard, Jr.	*Milwaukee*
Curts, Charles Wilson	*Paterson, N. J.*
Curts, Robert Morison	*Paterson, N. J.*
Cushman, Mary Folsom	*Portage*
Cutland, Inez Elizabeth	*Wilton*
Dahm, Irene Lancaster	*Madison*
Dahm, Marie Florence	*Chicago, Ill.*
Daley, Catherine Rose	*Fort Wayne, Ind.*
Daly, Margaret Frances ls	*Chicago, Ill.*
Damon, Frank Gerald	*Council Bluffs, Iowa*
Daniels, Walter Edgar ls	*Oak Park, Ill.*
Danks, Roy Sylvester	*Fond du Lac*
Darcy, Anne Marie	*Hillsboro*
Daugherty, Robert Emmett	*Louisville, Ky.*
Dauksys, Joseph ls, m	*Madison*
Davenport, Ethel	*Omaha, Nebr.*
Davenport, Louise	*Ottawa, Kans.*
Davidson, Katharine Kingsbury	*Indianapolis, Ind.*
Davidson, Margaret Layne	*Indianapolis, Ind.*
Davidson, Wayne K.	*Chicago, Ill.*
Davies, Doris Alene	*Cleveland, Ohio*
Davies, Gladys Anna	*Madison*
Davies, Lilian E.	*Madison*
Davis, Berenice Davida	*Chicago, Ill.*
Davis, Bessie	*Portage*
Davis, Bessie Ruth	*Lodi*
Davis, Josephine Hortense	*Kansas City, Mo.*
Davis, Marjorie Helen	*Boardman*
Davis, Mary Corwin	*Portage*
Davis, Napoleon Bonaparte	*Chicago, Ill.*
Davis, Winifred	*Cleveland, Ohio*
Dawson, John Coleman ls	*Dalhart, Tex.*
Dawson, Nellie Esther	*Evansville*
Day, Marion	*Kansas City, Mo.*
Dean, Donald C.	*La Crosse*
Degler, Louis Frederick ls	*Superior*
Dela Hunt, Jane Alliott ls	*Milwaukee*
Delaney, Dorothy Florence Ann	*Erie, Pa.*
De Lisle, Grace May	*Toledo, Ohio*
Dellicker, Doris Elliott	*Milwaukee*

Demaree, Glenn	*Winnebago, Ill.*
Dennison, Alice Emma	*Omaha, Nebr.*
De Puy, Mary Esther	*Madison*
Des Jardins, Ruth Eleanor	*Racine*
Desmond, Humphrey Earl ls	*Milwaukee*
Desmond, Robert William ls	*Milwaukee*
Detchon, Irwin Lee	*Crawfordsville, Ind.*
De Vilbiss, Bess Beatrice	*Fort Wayne, Ind.*
Devine, Kathryn Jane ls	*Madison*
DeVinney, Sylvan Shetterly ls	*Madison*
Dexter, Edwina ls	*Madison*
Deysenroth, Esther Johanna	*Columbus*
Dickelmann, Lorin Elmer	*Milwaukee*
Dickens, John Shannon	*La Crosse*
Dickson, Josephine	*Sandwich, Ill.*
Diebold, Marshall John ls	*Madison*
Diehm, Harold Frederick	*Remus, Mich.*
Dietrich, Dayis Mansfield ls	*Superior*
Dietzman, William Paul ls	*Richland Center*
Dill, Marion Grace ls	*Superior*
Dine, Lockie Florence ls	*Milwaukee*
Dinsmore, Maud Zulome	*Delavan*
Diver, Robert Warren	*Humboldt, Kans.*
Dixon, Esther Margaret ls	*Elroy*
Dixon, John	*Columbus*
Dixon, Lala Alice ls	*Brandon*
Dixon, Mae Adaline Prickett	*Lexington, Va.*
Doane, Lucile J.	*Sparta*
Dobry, Lillian	*Algoma*
Dodge, Edward Sabin ls	*Lake Mills*
Doerfer, Marie Anna	*Madison*
Doherty, Marie Margaret	*Chicago, Ill.*
Dohoney, Anne Margaret	*Merrill*
Doke, Howard Bailey ls	*Madison*
Dolliver, Ardin Joseph	*Berlin*
Domogalla, Bernhard Paul ls	*Milwaukee*
Donahoe, Mary Catherine	*Oshkosh*
Donahue, Von	*Hibbing, Minn.*
Donalds, John E. ls	*Superior*
Donnellan, Arthur Newman	*Eau Claire*
Dooley, Milton Lawrence ls	*Milwaukee*
Doolittle, Kathryn Louise ls	*Winnetka, Ill.*
Doran, Isabel	*Omaha, Nebr.*
Dorr, Charles Henry	*Whitewater*
Dorries, Charles Wetzel	*Buffalo, N. Y.*
Dorsel, Sylvester John	*Cincinnati, Ohio*
Dorward, William Gould ls	*Madison*
Doty, Richard Coe	*Reading, Pa.*
Dougherty, Albert LeRoy	*Indianapolis, Ind.*
Douglas, Carlton Egbert ls	*Milwaukee*
Doyle, Chauncey Jay ls, m	*Milwaukee*
Doyle, Nellie	*Milwaukee*
Drake, Birdie Belle	*Genoa, Ill.*

Drake, Kathryn	*Bethlehem, Pa.*
Drake, Mary Louise a	*Decatur, Ill.*
Drake, Mary Whitehead	*Kansas City, Mo.*
Dray, Clarence Hildebrand	*Cleveland, Ohio*
Dressendorfer, Loren Henry	*Marshfield*
Dresser, Augusta Severson Avery	*Denver, Colo.*
Dresser, Helen Elizabeth	*Sturgeon Bay*
Draege, Claus	*Glencoe, Ill.*
Druley, Helen	*Prescott*
Dubin, William	*Milwaukee*
DuBoff, Ida Sue	*Chicago, Ill.*
Du Bois, Horace Albert ls	*Neenah*
Dudden, Katherine	*Oconto*
Dugan, Helen Kathleen	*Decatur, Ind.*
Dull, Cecil Fay ls, m	*Muscoda*
Duncan, Glenn Allen ls	*Madison*
Dunlap, Maude Sigsbee	*Quincy, Ill.*
Dunn, Elizabeth Margaret	*Prentice*
Dunning, Pearl	*Grand Rapids, Mich.*
Dunwiddie, Katherine Maude	*Delavan*
Dupuis, Alma Angeline	*Marinette*
Durand, Loyal, Jr.	*Milwaukee*
Durbin, Alice Mabel	*Milwaukee*
Dwyer, Martha Helen	*Chicago, Ill.*
Dye, William Joseph Paul	*Sistersville, W. Va.*
Dykema, Claude Dale	*Grand Rapids, Mich.*
Dysslin, Mable	*Kansas City, Mo.*
Ebert, Luella Louise	*Chicago, Ill.*
Ebregger, Mabel Charlotte	*Des Plaines, Ill.*
Eddy, Caroline Victoria	*Madison*
Ede, Olive H.	*Hillsboro*
Edgar, Mary Louise	*Madison*
Edwards, Eleanor Lloyd	*La Crosse*
Edwards, LeRoy Delos ls	*Lancaster*
Edwards, Lucile Belle	*Kansas City, Mo.*
Edwards, William Henry	*Washington Court House, Ohio*
Egan, Oswald Richard ls	*Highland*
Eggebrecht, Otto August	*Wausau*
Eichsteadt, Esther Caroline	*Port Edwards*
Eickhoff, Hulda Augusta	*Indianapolis, Ind.*
Eickhoff, Paula Sophia	*Indianapolis, Ind.*
Ekern, Elsie Alverne ls	*Madison*
Eller, Leone Laura	*Omaha, Nebr.*
Ellett, Edith Keefer	*Rockville, Ind.*
Ellifrit, Floride Imelda	*Platteville*
Ellingboe, Mildred Caroline	*Northfield, Minn.*
Ellingson, Harvey Thomas ls	*Wautoma*
Ellis, Ivan George ls, m	*Milwaukee*
Ellis, William Burton	*Evanston, Ill.*
Elpers, Wendell Herman	*Fort Branch, Ind.*
Elsom, Elizabeth Reams ls	*Madison*
Elsom, Kendall Adams ls	*Madison*
Ely, Robert Gilman	*Kenilworth, Ill.*

Emanuel, Eulalia Alfreda	*Shawano*
Emerson, Adolph Herman ls, m	*La Crosse*
Emerson, Florence Grafton	*Claremont, Cal.*
Emery, Alden Hayes	*Wellington, Ohio*
Emery, Lillian Ruth	*New Albany, Ind.*
Emmert, Bryan	*Chicago, Ill.*
Endres, Otto John	*Madison*
Engelhardt, Carl John ls	*Milwaukee*
Engelhardt, William Frederick ls	*Milwaukee*
Engholm, Helen Patience	*Madison*
Engle, Alice N.	*Detroit, Mich.*
Erickson, Edith Thelma ls	*West Allis*
Erickson, Hazel Agnes	*Beloit*
Erickson, Peter Erick	*Milwaukee*
Erikson, Frances Marie	*Chicago, Ill.*
Erlandson, Alpha Olive	*Galesburg, Ill.*
Eschweiler, Elaine Katharine ls	*Madison*
Eschweiler, Paul ls	*Madison*
Essig, Florence Mae	*South Whitley, Ind.*
Etheridge, Frances Dorothy-Locke	*Vincennes, Ind.*
Etherton, Fred Snider	*Carbondale, Ill.*
Ethun, Christian	*Hillsboro*
Eulass, Margaret Anthony ls	*Chicago, Ill.*
Evans, Elsie R.	*Kansas City, Kans.*
Evans, Pauline	*Terre Haute, Ind.*
Evans, Willis Calvin	*Grand Rapids, Mich.*
Everett, Edward	*Madison*
Everson, Mabel Tilla	*Argyle*
Everson, Norma Gertrude	*Hudson*
Evraets, Anna	*Green Bay*
Ewald, Edith Vivien ls	*Mount Carmel, Ill.*
Ewertz, Henry ls	*Milwaukee*
Exner, Etta May	*Kalamazoo, Mich.*
Eygabroad, Grace Colton	*Aurora, Ill.*
Fahey, Lucille Margaret	*Kansas City, Mo.*
Fairchild, Roy Cornwall	*Bridgeport, Conn.*
Faith, Emil F.	*Fennimore*
Falk, Philip Hadley	*Lake Mills*
Falkenroth, Emily Martha	*Chicago, Ill.*
Fallon, Mildred	*Hutchinson, Minn.*
Fausett, Eva Johnston	*Indianapolis, Ind.*
Fee, Archibald Hubert	*Superior*
Feeney, Agnes Mary ls	*Madison*
Feigis, Julius	*Racine*
Feinberg, Ben	*La Crosse*
Feldman, Joseph George g	*Madison*
Feldman, Samuel S. ls	*Sheboygan*
Fellows, Alice	*Toledo, Ohio*
Fellows, Frank Carroll ls	*Lodi*
Felten, Clarence Bernard ls	*Milwaukee*
Felten, Rufus Benjamin ls	*Milwaukee*
Ferebee, Dorothy June ls	*Richland Center*
Ferguson, Boyd Lee	*Richland Center*

Ferguson, Florence Lillian	*Chicago, Ill.*
Ferguson, Leander Wood ls	*Madison*
Fiddyment, Alice Martha ls	*Norfolk, Va.*
Fiedler, Alban Bernard	*Cuba*
Field, Ted Howard ls	*Rice Lake*
Field, William Alexander ls	*Chicago, Ill.*
Fingel, Harry	*Oconto*
Finke, Mary Elizabeth	*Cincinnati, Ohio*
Finnel, Albert George e	*Marinette*
Fischer, Milton Andrew ls	*Merrill*
Fischer, Warren Charles ls	*Two Rivers*
Fish, Evelyn H.	*Milwaukee*
Fisher, Edwin S. W.	*Janesville*
Fitch, Logan Dallas ls, l	*Madison*
Fitch, Mary Amelia	*Omaha, Nebr.*
Fitting, Mayme Ellen	*Dexter, Iowa*
Fitzgibbons, Ida Kathryn ls	*Monroe*
Fitzpatrick, Dorothy Lucile	*Chicago, Ill.*
Fitzsimmons, Charles Hasley ls	*Duluth, Minn.*
Flanagan, Clement W.	*Escanaba, Mich.*
Flarity, Thomas Harold ls, m	*Edgerton*
Fleishman, Margaret Gertrude ls	*St. Louis, Mo.*
Fleming, Vera Adelle	*Downsville*
Flentke, Hazel	*Evansville, Ind.*
Fletemeyer, Helen Mary	*Lafayette, Ind.*
Flickinger, Frederick Rodgers ls	*Toledo, Ohio*
Flinn, William Claude ls	*Superior*
Flood, Andrew Patrick l	*Waco, Tex.*
Flood, May Genevieve	*Courtland, Ill.*
Flynn, Marie A.	*Milwaukee*
Foged, Charlotte Magdalen	*Clinton, Iowa*
Fogg, Mary Libby	*St. Louis, Mo.*
Fogo, Frank Eurotas	*Richland Center*
Foley, Lena Abigail	*Plymouth, Ill.*
Foley, Myra Frances	*Plymouth, Ill.*
Follman, Jeanne Gertrude	*Sigourney, Iowa*
Follo, Marvel	*Chicago, Ill.*
Forbes, Katherine	*Cleveland, Ohio*
Forck, Clara Margaret	*Chicago, Ill.*
Ford, Edna Pauline	*Marinette*
Ford, Joseph Hurley	*Edgerton*
Ford, William, Jr.	*Glenwood, Mo.*
Forde, Esther Pauline	*Washburn*
Forsbeck, Filip Carl ls, m	*Milwaukee*
Forsythe, Irene A.	*St. Louis, Mo.*
Forthal, Sonyo ls	*Cleveland, Ohio*
Foulke, Frances Willard	*New Castle, Pa.*
Fowler, Alice E.	*Milwaukee*
Fowler, Richard Randolph	*Wilmette, Ill.*
Fox, Matie Dorothy ls, wls	*Waterloo*
Foxworthy, Elizabeth Bradley	*Indianapolis, Ind.*
Foy, Torrey Byers ls	*Freeport, Ill.*
Frahm, Alma Katharine	*Davenport, Iowa*

Francis, Evelyn Lillian	*Chicago, Ill.*
Franklin, Anna M.	*Kansas City, Mo.*
Franks, Fern Mildred	*Chicago, Ill.*
Frazier, Francis Philip	*Santee, Nebr.*
Frazier, Milton Reid	*Bloomington*
Freehauf, Harvey George	*Minneapolis, Minn.*
Frehling, Joseph Morris	*Louisville, Ky.*
Freitag, Veronica ls, m	*New Glarus*
French, Roy LaVerne ls	*Madison*
Freytag, Arthur ls	*Chicago, Ill.*
Fricker, Will Henry	*Whitewater*
Friedman, Leon Louis, Jr.	*Milwaukee*
Fries, Mary Fredonia ls	*Richland Center*
Fritz, Fidelia mu	*Madison*
Fritz, Norma Henriette	*Sheboygan Falls*
Fronk, Joseph Edward ls	*Mishicot*
Fronk, William James ls	*Mishicot*
Frost (Miss) Kelley	*Shelbyville, Tenn.*
Frostad, Erling	*Princeton*
Fry, Grace Lelia	*Portsmouth, Ohio*
Frye, Margaret	*Highland*
Fuchs, Kurt ls	*Janesville*
Fuhrman, Carl Gustave ls	*Dubuque, Iowa*
Funderburgh, Cora Alma	*Westfield, Ind.*
Funk, Elsie Adeline	*Chicago, Ill.*
Furlong, Francis Johnson	*St. Louis, Mo.*
Furst, Frances Evelyn	*Kalamazoo, Mich.*
Gagen, Rose	*Janesville*
Gage, Earle E. ls	*Whitehall*
Gallagher, Cecilia Mary	*Oconto Falls*
Gallagher, Olive Marie	*East Dubuque, Ill.*
Gallagher, Viola Ellen	*East Dubuque, Ill.*
Galpin, Alfred, Jr. ls	*Appleton*
Gannon, Alyce E. ls	*Lodi*
Gannon, Leo Vincent	*Sedan, Minn.*
Gardner, Arthur Otto	*Wonewoc*
Gardner, Katherine Winston	*St. Louis, Mo.*
Garlick, Mabel E. ls	*Chicago, Ill.*
Garry, Margaret Merle	*Cleveland, Ohio*
Garside, Frances Mabel	*Cedar Grove*
Garver, Ralph Emerson	*Trotwood, Ohio*
Garwood, Carrie Belle	*La Porte, Ind.*
Gasser, John Jacob ls, m	*Chicago, Ill.*
Gasul, Benjamin Morris ls, m	*Kenosha*
Gatterdam, Paul Christopher ls, m	*La Crosse*
Gaul, Charles Raymond	*Waukesha*
Gay, Frances Anne	*Streator, Ill.*
Gebhardt, Karl ls	*Madison*
Geisler, Ermgard Wilma	*Wausau*
Geisler, Leona Marie	*Wausau*
Gellert, Anita Mary Ann	*Chicago, Ill.*
Gellert, Charlotte Marguerite	*Chicago, Ill.*
Gendell, Elizabeth Beldon	*Philadelphia, Pa.*

Gendell, Lucy Cooper	*Philadelphia, Pa.*
George, Lloyd ls	*Geneva, Ill.*
Gerhauser, Frank Eugene	*Madison*
Gesell, Gertrude Mary	*Lodi*
Gesell, Harvey Henry	*Two Rivers*
Gettle, Rollin Brown ls	*Madison*
Gibbon, Alexander Myron ls	*Oshkosh*
Gibbon, Owen Benjamin	*West Allis*
Gibson, Dwight Lawrence	*Madison*
Gibson, Helen Florence	*Detroit, Mich.*
Gibson, Rhea M.	*Sheboygan*
Gibson, Richard Ford ls	*Wisconsin Rapids*
Gilchrist, Edith Marie	*Indianapolis, Ind.*
Gilday, Anna Catherine	*Kansas City, Mo.*
Gilday, Mary Agnes	*Kansas City, Mo.*
Giles, George Cranston ls	*La Grange, Ill.*
Gill, Corrington Calhoun ls	*Grand Rapids, Mich.*
Gill, Lois Margaret	*Reedsburg*
Gillespie, Arzie David	*Chicago, Ill.*
Gillett, Elizabeth Louise	*Weyerhaeuser*
Gilson, Elmer Franklin ls	*Gillett*
Gingles, Frances	*Two Rivers*
Ginty, Clara Alice	*Madison*
Giryotas, Emelia Josephine ls	*Madison*
Givens, Genevieve Mary	*Toledo, Ohio*
Glascock, Kathryn Irene	*Culver, Ind.*
Gleason, Ida Frances Agnes	*New Richmond*
Gleason, Joseph Baird ls	*Madison*
Gleason, Nellie Katherine	*Stevens Point*
Glenn, Frances Leona	*Indianapolis, Ind.*
Glomstead, Edwin Engwald ls	*Sturgeon Bay*
Gnagi, Will Bender ls	*Monroe*
Goan, Lois Electa	*Millville*
Goddard, Elizabeth	*Monmouth, Ill.*
Gold, Bessie ls	*Berlin*
Gold, Ida ls	*Berlin*
Goldberg, Irving ls, m	*Milwaukee*
Goldberg, Mark ls	*Madison*
Golden, Jennie Alberta	*Marinette*
Gombar, Francis Sutherland ls	*Brodhead*
Goo, Mabel ls	*Honolulu, T. H.*
Goo, Violet ls	*Honolulu, T. H.*
Goodenow, Florence Brown ls	*Berlin, Mich.*
Goodhue, Katherine Doris ls	*Edson, Kans.*
Goodwin, Florence Myers	*Milwaukee*
Goodwin, Robert Cabaniss	*Brownwood, Tex.*
Goodyear, Charles Stewart ls	*Madison*
Gordon, Helene Phebe ls	*Battle Creek, Mich.*
Gordon, Richard Jacob	*Chicago, Ill.*
Gormley, Margaret ls	*Spokane, Wash.*
Gorton, Florence Anna	*Arcadia*
Goss, Harvey Lawrence	*Janesville*
Goss, Marian Maxwell	*Oshkosh*

Gradolf, Dorothy	*Cincinnati, Ohio*
Grady, Lorna Voigt ls	*Watertown*
Graf, Lottie Catherine	*Cashton*
Grah, Anna Helene	*Cincinnati, Ohio*
Graham, Alex Richard	*Madison*
Graham, Edith Anna	*Ellsworth*
Graham, Esther Gertrude	*Milwaukee*
Graham, George Harold	*Chicago, Ill.*
Graham, Marguerite Clara	*Forest River, N. Dak.*
Graham, Neill Smith ls	*San Antonio, Tex.*
Grape, Leon Alvin	*Bruce, S. Dak.*
Graves, Lilian	*Webster Groves, Mo.*
Gray, Elizabeth A.	*Duluth, Minn.*
Gray, Florence Mae	*Lakewood, Ohio*
Gray, Frank Winchester ls	*Milwaukee*
Gray, Ruth H.	*Sturgis, Mich.*
Greeley, Romanza Ann	*Shannon, Ill.*
Greene, Bernice Henrietta	*Racine*
Greene, George Webster ls	*Madison*
Greene, Helen	*Bonner Springs, Kans.*
Greenspon, Jennie ls	*Appleton*
Gregg, Ashton Carter ls, l	*Decorah, Iowa*
Gregory, Horace Victor ls	*Milwaukee*
Gregory, Lawrence William ls, m	*Valders*
Grelle, Lawrence Henry	*Prairie du Chien*
Grenzow, Ray Hebron	*Madison*
Gribble, Lelah L.	*Mineral Point*
Griest, Mary Ruth	*Omaha, Nebr.*
Griffin, Ruth Angeline	*Fayette, Ohio*
Griffis, Florence J.	*Mount Hope*
Griffith, Alice K.	*Indianapolis, Ind.*
Gronquist, Magnhild Theodora	*Chicago, Ill.*
Groot, Agnes	*Cleveland, Ohio*
Grote, Meta Louise	*South Milwaukee*
Groth, Alva Emma	*Jackson*
Groth, Irene Marie ls	*Jackson*
Grueneisen, Jesse Raymond	*Madison*
Guequierre, Jacques Pierre	*Milwaukee*
Guetzloe, Royal Peter	*Kiel*
Gumpert, Emmy Margaret	*Milwaukee*
Gunther, Gordon	*Jefferson City, Mo.*
Gurley, Eva Rose	*Milton*
Gustafson, Gerald Williams	*Chesterton, Ind.*
Gustin, Fred Ernest	*Hancock*
Haake, Alma Agnes ls	*Madison*
Haass, Jacob John	*South Kaukauna*
Habernicht, Clara Anna	*Madison*
Habing, Gertrude	*Holland, Mich.*
Hackman, Marietta Duffy	*Havana, Ill.*
Haertel, Gertrude Elizabeth	*Waukesha*
Haerter, Henrietta Katherine	*Milwaukee*
Hagberg, Ida Olive	*Superior*
Hahn, Juliet	*Milwaukee*

Hale, Hazel Shirley	*Waynesville, Ill.*
Hall, Earle Hopkins	*Oconto*
Hall, Joseph Alfred g	*Madison*
Hall, Thelma Glenadine	*Stockbridge, Mich.*
Hall, Theodore Faxon ls	*Detroit, Mich.*
Halley, Edmund Paul	*Evanston, Ill.*
Halling, Mildred Evelyn	*Racine*
Halperin, Herman Bernard	*Madison*
Halverson, Lynne Harvey ls	*Madison*
Hamblin, Mable Edith	*Franklin, Ind.*
Hamilton, Laura Adele	*Fife Lake, Mich.*
Hamilton, Vevanell	*Arena*
Hammerstein, Mary F.	*St. Louis, Mo.*
Hammill, Beatrice Martha ls	*Beloit*
Hammond, Alice Ray	*Wauwatosa*
Hammond, Reginald Wilmot ls, m	*Manitowoc*
Hance, Lyle Stanley ls	*Pasadena, Cal.*
Haney, Earl McKinley	*Crandon*
Hann, Raymond McGeary	*Washington, D. C.*
Hanna, Edith Joyce	*Kansas City, Mo.*
Hansel, Hazel	*Terre Haute, Ind.*
Hansen, Matilda	*Kenosha*
Hansen, Segrae	*Rhinelander*
Hanson, Frederica	*Toledo, Ohio*
Harker, Will	*Argyle*
Harley, Gertrude Ruth ls	*Madison*
Harman, Hubert F. ls, m	*Sparta*
Harman, John Clarence ls, m	*Sparta*
Harmon, Amanda Margaret	*Plymouth*
Harrington, Rose Genevieve	*Edgerton*
Harrington, Veronica Mary ls	*Madison*
Harris, Isabelle B.	*California, Pa.*
Harris, Marjorie Allene	*St. Louis, Mo.*
Harrison, Gwen Irene	*Sparta*
Harrop, Earl Webster	*Arena*
Hart, Margaret F.	*Wauwatosa*
Hartlett, Elvin Mann ls, m	*Germantown, Pa.*
Hartman, Kline Benjamin	*Hesperia, Mich.*
Hartmuth, Norma Constance	*Milwaukee*
Hartwig, John Adam	*St. Louis, Mo.*
Harvey, Mary Thornton	*Drumright, Okla.*
Harville, Clifford Henry ls, m	*Eau Claire*
Harwood, Viola Georgia	*Devils Lake, N. Dak.*
Hascher, Alice Tressa	*Grand Rapids, Mich.*
Hassard, William R.	*Ashland*
Hathaway, Mena Violet	*Baltimore, Md.*
Hathaway, Mildred Isabel	*Chicago, Ill.*
Hattershire, Margaret	*East St. Louis, Ill.*
Hauck, Helen Constance	*Cincinnati, Ohio*
Haug, Hannah Marie ls	*Spring Valley*
Haugen, William Emmert	*Hudson*
Hausmann, Eleanor Henrietta	*Madison*
Haussmann, Olga K.	*Madison*

Hawes, Payton Elizabeth	*Washington, D. C.*
Hawley, Clifford Stanley ls	*Madison*
Hawley, Elisabeth Waldo	*Detroit, Mich.*
Hawley, William Emery ls, l	*Baldwin*
Hayes, Blanche Anne	*Green Bay*
Hayes, Mary Davy	*Cleveland Heights, Ohio*
Hays, Alden Farrelly	*St. Louis, Mo.*
Hays, Frances Byers	*St. Louis, Mo.*
Hazard, Charles McIntosh	*Milwaukee*
Head, Eleanor Bushnell	*Madison*
Headley, Richard Mayfield ls	*Chicago, Ill.*
Healy, Margaret Catherine	*Antigo*
Hedstrom, Hazel Marie mu	*Oak Park, Ill.*
Hegeman, Vera Beatrice	*Wilmot*
Heidbreder, Ralph Harold ls	*Quincy, Ill.*
Heidergott, Anna S.	*Indianapolis, Ind.*
Helfner, Nell Elizabeth	*Aurora, Ill.*
Heimdal, Clarence Oliver ls, m	*Minneapolis, Minn.*
Hein, Elizabeth May	*North Freedom*
Heindel, Betty Mae ls	*Kenosha*
Heise, Irvin F.	*Edgar*
Heisman, Milton John	*Watertown*
Hellebrandt, Frances Anna ls	*Oak Park, Ill.*
Helm, Ella F.	*Webb City, Mo.*
Hembre, Ingvald Oscar a	*Greenwood*
Henderson, Joseph Melville	*Walworth*
Hendra, Philippa Jane	*Madison*
Hendrick, Paul Edmund ls	*Virginia, Minn.*
Hendricks, Lydia Anne ls	*Tomah*
Hendrickson, Ruth Alice	*Dodgeville*
Hendry, Margaret Dodd	*Fond du Lac*
Henika, Evangeline C. ls	*Madison*
Henika, Franklin Sinclair ls	*Madison*
Henkel, Albert John	*Lodi*
Hennecke, Margaret ls	*Milwaukee*
Hennel, Norma Lillian ls	*Coshocton, Ohio*
Hennessy, Martin F. ls	*Lone Rock*
Henry, Martin Rudolph	*Omaha, Nebr.*
Henry, Mildred Louise	*Detroit, Mich.*
Henry, Robert Allison ls	*Macfarland*
Herbkesman, Chester	*Cleveland, Ohio*
Hercher, John Daniel	*Milwaukee*
Herda, Francis Joseph	*Prescott*
Herman, Edna Louise	*Newport, Ky.*
Herman, Mildred Sarah	*Sheboygan*
Herman, Nora Marguerite	*Manawa*
Hermes, Charlotte Jeane g	*Racine*
Herritt, Mary	*Columbus, Ohio*
Herrod, Alberta Mary	*Webb City, Mo.*
Herron, Lucille Beatrice ls	*Milwaukee*
Heseman, Earl John ls	*Evansville, Ind.*
Hess, James Sam ls, m	*Mauston*
Hess, Nellie C.	*Madison*

Hetebrueg, Agnes Lenore	*Milwaukee*
Heubner, Inez Goodsill	*Fort Morgan, Colo.*
Hewitt, Maud Ethel	*Kansas City, Mo.*
Hibbard, Mattie Florence	*Helena, Mont.*
Hickey, Donald Hurlbut ls	*Whitewater*
Hickey, Rollin Martin ls	*Reedsburg*
Hicks, Charles Harold ls	*Madison*
Hicks, George Mayhew	*Chicago, Ill.*
Hicks, Kathleen E.	*Richland, Mich.*
Hield, Charles Raymond ls	*Janesville*
Higgins, Mary Elizabeth	*St. Louis, Mo.*
Hiken, Charles ls	*Milwaukee*
Hilberts, Esther Elizabeth ls	*Jefferson*
Hill, George Butler	*Blacks Ferry, Ky.*
Hill, Glenn Clark, Jr.	*St. Louis, Mo.*
Hill, Jessie	*Mt. Vernon, Ill.*
Hill, Lydia Alice	*Lake Geneva*
Hilpert, Anna Walter	*St. Louis, Mo.*
Hinkley, Phoebe Silsby	*Oak Park, Ill.*
Hintz, David Herman ls	*Almond*
Hintze, Laura	*St. Louis, Mo.*
Hipke, Malcolm Maynard	*Milwaukee*
Hippaka, Thomas August	*Ely, Minn.*
Hirsig, Pearl Theodosia ls	*Mt. Horeb*
Hocking, George Drew ls	*Waupaca*
Hoehn, Henry Gerard	*Monroe*
Hoffman, Marguerite Lillian	*Madison*
Hoffman, Martha L.	*Dubuque, Iowa*
Hoffman, Willard Edward	*Lyndhurst*
Hofsoos, Selma Berthea ls	*Stevens Point*
Hoge, Verne Blankenship	*Gate City, Va.*
Hohlfeld, Rudolf Libbert ls	*Madison*
Holdahl, Agnes Sophie	*East Ellsworth*
Holdahl, Isabelle Theresa ls	*Beldenville*
Holden, Katharine Lenore	*Merrill*
Hollister, Donald Edgar ls	*Milwaukee*
Holman, Luther Leslie ls	*Madison*
Holmes, Consuelo	*Bloomington, Ill.*
Holst, Ethel A.	*Chicago, Ill.*
Holt, Fred John	*Edgerton*
Holtz, Myrtle Ruth	*Minneapolis, Minn.*
Homme, Raymond Blaine	*Stoughton*
Hompe, Marjorie	*Grand Rapids, Mich.*
Hood, George Kenneth	*Spring Green*
Hood, Georgia H.	*Alpena, Mich.*
Hoole, Patricia	*West Allis*
Hooper, Helen ls	*Oshkosh*
Hoopes, Louise Olive	*Springfield, Ill.*
Hopkins, Alice Isabel	*Princeton, Ind.*
Hopkins, Edith	*Kansas City, Kans.*
Hopkins, Jane Elizabeth	*Washington, D. C.*
Hoppe, Erich Otto ls	*Platteville*
Hoppenyan, Margaret Mary ls	*Ashland*

Horn, Matilda Olga ls	*Brillion*
Hornback, John Jacob	*Huntington, Ind.*
Horner, Mattie Jessee	*Tulsa, Okla.*
Hotchkiss, Mildred Lourane . .	*Coloma*
Houseman, Burton Cornelius	*Findlay, Ohio*
Houston, Walter Charles	*Milwaukee*
Hovland, Frank Carl ls	*Bloomer*
Howard, George Emory	*La Fayette, Ind.*
Howard, Vera Marie	*Shenandoah, Iowa*
Howe, Agness Dare	*Rensselaer, Ind.*
Howe, Burr	*Minneapolis, Minn.*
Howes, Ruth Bernice	*Dubuque, Iowa*
Hrubesky, Clarence Earl ls	*Menasha*
Hua, Shih Ting ls	*Wusih, China*
Huber, Fredrick Dale l	*Ellsworth*
Huck, Catherine Ursula	*Ste. Genevieve, Mo.*
Hudson, Julia Brown	*Oklahoma City, Okla.*
Hudson, Robert James ls, m	*Madison*
Huebner, Arthur Carl ls	*Madison*
Huether, Walter William	*Madison*
Huffman, Prudentia Crawford	*Detroit, Mich.*
Hugener, Josephine Katherine	*Saginaw, Mich.*
Hughes, Bertha	*Madison*
Hughitt, Anne Sue	*Escanaba, Mich.*
Hull, Bertha Intzi ls	*Madison*
Hull, Thomas Clinton	*Wheaton, Ill.*
Humphrey, May Elizabeth	*Watertown*
Humphrey, Valentine Eugenia ls	*Patch Grove*
Hunt, Marian Angelia	*Fall River*
Hunter, Margaret Mary ls	*Milwaukee*
Hurley, Mary Vivian	*Milwaukee*
Hurst, Alfred Dickson	*Syracuse, N. Y.*
Hutchison, Bertie Logan	*Carrollton, Mo.*
Hyslop, Volney Butman	*Madison*
Igoe, Celestine Mary	*Chicago, Ill.*
Imerman, Stanley William	*Detroit, Mich.*
Immell, Orrie	*Blair*
Ingebritsen, Otis Clarence	*Madison*
Inghram, John Thomas, Jr.	*Quincy, Ill.*
Inghram, Lillian Brown	*Quincy, Ill.*
Ingold, Harry Johnson ls	*Appleton*
Ingram, Walter Julius	*Rice Lake*
Isaacson, Flora Ellen	*Republic, Mich.*
Isaacson, Myrtle M.	*Superior*
Iverson, Anna Mae ls	*Tomahawk*
Ives, Clara Adelaide	*Chicago, Ill.*
Iwen, Loretta M.	*Shawano*
Jackson, Benjamin Frank ls	*Milwaukee*
Jackson, Julia Morris ls	*Madison*
Jacobson, Roland Arthur	*Billings, Mont.*
Jacobus, Delwin Charles ls	*Wauwatosa*
Jahren, Alette Henriette	*Lake Park, Minn.*
Jamba, Ann ls	*Madison*

James, Adelene Wilder ls	*Richland Center*
James, Elsie Anita	*Mineral Point*
James, Florence	*Kansas City, Mo.*
Jandell, Eula Marie ls	*Milwaukee*
Jandell, Josephine Marie	*De Kalb, Ill.*
Jansen, Adeline Elizabeth	*Quincy, Ill.*
Janssen, Victor Ernst ls	*Mayville*
Jenkins, Meleta Lucinda	*Sparta*
Jenkins, Pearl Theresa	*Odessa, Mo.*
Jennings, Elsie Joanna	*Detroit, Mich.*
Jensch, Charles Campbell ls	*Hudson*
Jensen, Alfred Harold ls	*Madison*
Jensen, Myrtle	*Wild Rose*
Jewett, Jonas Levias	*Evansville, Ind.*
Jobson, Ellen Clair ls	*Danville, Ill.*
Joch, Margaret Madeline	*Weyauwega*
John, Frederic Charles ls, l	*Milwaukee*
Johnson, Alma Eleanora	*Ashtabula, Ohio*
Johnson, Edith Mary ls	*Grand Rapids, Mich.*
Johnson, Ella Serafia	*Rockford, Ill.*
Johnson, Emma Mabel	*Blanchardville*
Johnson, Frederich Wall ls	*Rockford, Ill.*
Johnson, G. Norman	*Wausau*
Johnson, Hattie Elizabeth	*Rockford, Ill.*
Johnson, Helen Louise ls	*New Ulm, Minn.*
Johnson, Helen Marie	*Martinsville, Ind.*
Johnson, Linnie Mae	*Hamilton, Ala.*
Johnson, Loma Loraine ls	*Madison*
Johnson, Marjorie Marian	*Indianapolis, Ind.*
Johnson, Nell Emily	*Chicago, Ill.*
Johnson, Stella Cornelia ls	*Eau Claire*
Johnson, Winfred Edwin	*Madison*
Johnston, Bertie	*Somerville, Tenn.*
Johnston, Bessie Mai	*Somerville, Tenn.*
Johnston, David Martell ls	*Madison*
Johnston, Fremont Faville ls	*Appleton*
Johnston, Margaret	*Madison*
Johnstone, Paul Migent	*Kansas City, Mo.*
Jones, Amoretta Beth	*Sparta*
Jones, David Roswell ls	*Spring Green*
Jones, Elizabeth Klinker	*Mauston*
Jones, Ella D.	*McLouth, Kans.*
Jones, Genevieve Ross ls	*Madison*
Jones, Harrison John ls	*Spring Green*
Jones, Iva Ethelyn	*Kansas City, Mo.*
Jones, Janet ls	*Wabash, Ind.*
Jones, John Paul ls	*Milwaukee*
Jones, Kathryn Margaret	*Hartford City, Ind.*
Jones, Wesley Warren ls	*Madison*
Jordan, John Alois ls	*Oshkosh*
Josewski, Raymond Julian	*Maxbass, N. Dak.*
Jost, Peter Robert	*Mondovi*
Joyce, Irene Elizabeth	*Columbus*

Juster, Eugene Meyer ls, m	*Milwaukee*
Kaasa, Elizabeth Josephine	*Merrill*
Kaemmer, Edith L. ls	*Almena*
Kaems, Lester Lincoln ls	*Manitowoc*
Kailin, Dorothy ls	*Madison*
Kan, Chia-Hon	*Shanghai, China*
Kane, Florence Janet	*Milwaukee*
Kanowsky, Curt	*Milwaukee*
Kao, Dorothy Tze ls	*Nantung, China*
Kaplan, Sam	*Chicago, Ill.*
Karlson, Gideon O.	*Milwaukee*
Kasdin, Gertrude ls	*Madison*
Kastlin, George Jacob ls, m	*La Crosse*
Katafiasz, Leon Louis ls	*Racine*
Katz, Wilber Griffith	*Milwaukee*
Kaufmann, Otto Frederick ls	*Sheboygan*
Kay, David Theodore ls	*Chicago, Ill.*
Keck, Everett Blaine ls	*Madison*
Keefer, Laura Belle	*Sterling, Ill.*
Keeley, Lillian Margaret	*Oregon*
Keller, Bertha	*Indianapolis, Ind.*
Keller, Fanny Margaret	*Madison*
Kelley, Josephine	*Mt. Vernon, Ind.*
Kellman, Norris John ls	*Galesville*
Kellogg, Fred C.	*Edgerton*
Kellogg, Horace Banter ls	*Antigo*
Kelly, Beatrice Allcott	*Milwaukee*
Kelly, Eugene David ls	*Leavenworth, Kans.*
Kelly, Virgil Albert	*Lancaster*
Kelso, Adah Florence	*Greenfield, Ohio*
Kempton, Elizabeth ls	*Madison*
Kempton, Willett Main ls	*Madison*
Kenney, Zola	*Tiskilwa, Ill.*
Kepner, Wade Hull	*Wheeling, W. Va.*
Kepple, Joseph Francis ls	*Cadott*
Kerschner, Harland Mease	*Copper Cliff, Ont., Canada*
Kettering, Helen Claycomb	*Monmouth, Ill.*
Kidder, Walter Stanley ls	*Madison*
Kleckhefer, Norma Helen ls	*Milwaukee*
Kiefer, Margaret Anna	*Indianapolis, Ind.*
Kienle, Hulda Matilda	*Toledo, Ohio*
Kimball, Lyman Burdick ls	*Janesville*
Kimber, Peter Burnet	*Marquette, Mich.*
King, Elizabeth Grace	*Cincinnati, Ohio*
Kingsley, Iris Elizabeth	*Chicago, Ill.*
Kinison, Charles Richard	*Mt. Vernon, Ill.*
Kinison, Cora Hinckley	*Mt. Vernon, Ill.*
Kinnan, Arthur Houston ls	*Madison*
Kinnear, Kenneth Maxwell ls	*La Crosse*
Kinney, Joel Fernando	*Cincinnati, Ohio*
Kinsey, Gladys Lynette	*Kansas City, Kans.*
Kirchner, Willard Florin ls	*Fountain City*
Kirk, Elizabeth ls	*New Castle, Pa.*

Kiser, Elliott Fox ls	*Eau Claire*
Kitchin, Katherine Ardelia	*Chicago, Ill.*
Kittleson, Arthur Isak	*Madison*
Klapman, Jacob	*Chicago, Ill.*
Klein, Elizabeth Higbee	*Cincinnati, Ohio*
Kleinheinz, Mary B.	*Madison*
Kleist, Emmy	*Milwaukee*
Kletzien, Hobart Henry	*New Holstein*
Kleucker, Wallace Henry ls	*Madison*
Klontz, Vera Vesta	*Freeport, Ill.*
Kneevers, Earl Edwin ls	*Sheboygan*
Knight, Ina Inez	*High Point, N. C.*
Knight, Jocelyn Winthrop ls	*Racine*
Knight, Ralph Glenroi	*High Point, N. C.*
Knippel, Susan Jane	*Milwaukee*
Knowles, Dorothy Regna	*Park Ridge, Ill.*
Knudson, Dagny Arilda	*Iron River, Mich.*
Knudson, Arthur H. ls, m	*Kenosha*
Knudtson, John	*Sioux Falls, S. Dak.*
Koch, L. Gerald ls	*Appleton*
Koch, Laura	*Madison*
Koepcke, Gerald Meinard ls	*Madison*
Kohl, Leo H. ls	*Marshfield*
Kolbe, Anna Clara	*Cleveland, Ohio*
Kolster, Clara Louise	*Milwaukee*
Koons, Frank Myron ls	*Baraboo*
Koopman, Ida Virginia	*Indianapolis, Ind.*
Koppke, Ruth Josephine ls	*Madison*
Kornreich, Eugene Frederick	*Milwaukee*
Kozel, Alice	*Lodi*
Krabbe, Amelia Dorothy	*Lafayette, Ind.*
Krainik, Julia Annette	*Milwaukee*
Kraupa, John	*Grafton*
Kraus, Eugene	*Ft. Wayne, Ind.*
Krause, Arthur John	*Oshkosh*
Krause, Elmer George ls	*Milwaukee*
Kregel, Luvella Josephine	*Wausau*
Kreiner, Gertrude Frances	*Superior*
Kreis, Julia West	*Wheaton, Ill.*
Kremer, William Edward	*Fond du Lac*
Kressin, Elsie Eleanore	*Thiensville*
Kriewitz, Augusta	*Chicago, Ill.*
Kriewitz, Helen J.	*Chicago, Ill.*
Kroehler, Delmar Leroy	*Naperville, Ill.*
Krom, Isadore George ls	*Withee*
Kroner, Julia Isabelle ls	*La Crosse*
Krumheuer, Ila Leora	*Grand Rapids, Mich.*
Krumheuer, Ina Merora	*Grand Rapids, Mich.*
Kruse, Alma Annette	*Dubuque, Iowa*
Kruse, Elizabeth	*Madison*
Kruse, Elmer Deling ls	*Madison*
Kuehner, Herman William	*Cedarburg*
Kuenzl, Ernest Gottfried ls	*Colgate*

Kuester, Hugo Leslie ls	*Madison*
Kumhera, Justine Rose	*Muscoda*
Kung, Müller Ling-Hsüan ls	*Shantung, China*
Kunze, Florence Esther	*Detroit, Mich.*
Kupperman, Frances Victoria	*Madison*
Kurth, Ethel	*Milwaukee*
Kutz, Russell Merrill	*Janesville*
Kyle, Charles Chester ls	*Menomonie*
Kyle, Lucile	*Tomah*
Ladner, Margaret	*Big Rapids, Mich.*
Lagron, Gabrielle Clara	*Peoria, Ill.*
Lahman, J. Harold ls	*Franklin Grove, Ill.*
Lake, Hazel Beatrice	*Ashland*
Lamb, Loretto	*Kansas City, Mo.*
Lamberton, Clay Danforth	*Berlin*
Lambrecht, Marguerite	*Madison*
Lampkin, Harriet Irene	*Detroit, Mich.*
Lampson, Mildred Edna	*Cumberland*
Lampton, Adine Terrell ls	*Jackson, Miss.*
Lampton, Helen Lala	*Jackson, Miss.*
Landa, Julio F. ls	*Lima, Peru, S. A.*
Landaal, Bernice Pearl	*Marshfield*
Landl, Alma Helen	*Madison*
Lane, Robert Ellsworth ls	*Janesville*
Lang, Edgar Franklin	*Jefferson*
Langstadt, Lucille Lena ls	*Appleton*
Larkin, Ella	*Whitewater*
Larkin, Helen Mary	*Madison*
Larkin, James Hazel	*Whitewater*
Larsen, Clara Johanna	*Kenosha*
Larsen, Ellen Marie	*Janesville*
Larson, Alice J.	*Chicago, Ill.*
Larson, Elva Frances	*Plymouth*
Larson, Emma S.	*Galesville*
Larson, Lucile L. ls	*Madison*
Larson, Ralph Elliott ls	*Madison*
Lasar, Madeline Lucy	*St. Louis, Mo.*
Lasher, Bertha	*Kansas City, Kans.*
Lasher, John Howard	*Antigo*
Laughlin, Harold Donald ls	*Oshkosh*
Lauman, Jack	*Indianapolis, Ind.*
Laut, Charles Robert	*Schofield*
Lautenbach, Marie	*Pella, Iowa*
Lawrence, Vernon ls	*Sparta*
Lawton, John Cliff	*Soldiers Grove*
Layde, Joseph B.	*Wausaukee*
Leak, Addie Elizabeth	*Woodville, Miss.*
Leaming, Marjorie	*Highland Park, Ill.*
Leard, Margaret	*Milwaukee*
Lee, Lih-Fan ls	*Chunking, China*
Leeds, Grace Esther	*Ashland, Ohio*
Lefel, Eileen Edith	*North Manchester, Ind.*
Lehmann, Jane Schrumpf ls	*Madison*

Leiser, Clara Margaret ls	*Milwaukee*
Leiser, Else	*Milwaukee*
Leishman, A. Irwin	*Whitewater*
Lemke, Arthur Carl ls	*Cadott*
Lensink, Clare Elizabeth	*Cedar Grove*
Leonard, Margaret Belle	*Rockford, Ill.*
Lessing, Marion Rose	*Urbana, Ill.*
Lete, Delmacio D.	*San Fernando, La Union, P. I.*
Levenson, Inez P.	*Chicago, Ill.*
Levi, Dorothea Everest mu	*Madison*
Levin, Doris	*Detroit, Mich.*
Levitin, Nadia ls	*Madison*
Levy, Hattie Minnette	*Cincinnati, Ohio*
Lewis, Bennett Robert ls	*Rhinelander*
Lewis, Lorna Lucile ls	*Oshkosh*
Lewis, Robert Crego ls	*Milwaukee*
Li, Keng-Chiang	*Tientsin, Taku, China*
Libby, Catherine Hildebrandt ls	*Indianapolis, Ind.*
Libby, Margherita Louise	*Indianapolis, Ind.*
Lichnovsky, Bertha Marie	*Omaha, Nebr.*
Lightbody, Julia Thomas	*Superior*
Lighthall, Richard John	*Syracuse, N. Y.*
Lilly, John Joseph ls	*Milwaukee*
Lincoln, Grace Garrison	*Richland Center*
Linden, Bertha May	*South Bend, Ind.*
Linden, Gabriel Eric ls, m	*Madison*
Lindenschmit, Louise Henrietta	*St. Louis, Mo.*
Linder, Shirley	*Chicago, Ill.*
Lindley, Addie Marie ls	*Pecatonica, Ill.*
Lindley, Lynnette Ysobel	*Madison*
Lindrooth, Eleanor	*Glenview, Ill.*
Lindsay, Mary Graeme	*Louisville, Ky.*
Liner, Mabel Margaret	*Brandon*
Lingenfelter, John Samuel ls, m	*Butte, Mont.*
Linsangan, Pedro Tuason ls	*Gapan, Nueva Ecija, P. I.*
Lissack, Harold Ralph	*Chippewa Falls*
Little, Mary	*Peshtigo*
Little, Theresa	*Peshtigo*
Liu, Ho	*Peking, China*
Loban, Myra Eugenia	*Waterloo, Iowa*
Lombard, Ruth Ida	*Wausau*
Long, Albert Buren	*Newark, Ohio*
Long, Laura B.	*Portsmouth, Ohio*
Longbotham, Gilmore Thomas	*Platteville*
Longfield, Charles Samuel	*Madison*
Longfield, Joseph John	*Madison*
Loomer, Harlin Gilbert ls	*Madison*
Lorch, Oscar William	*Madison*
Louden, Roberta Biddle ls	*Fairfield, Iowa*
Louiso, Mary Etta	*Anderson, Ind.*
Lounsbury, Harry E. ls	*Madison*
Lounsbury, James Anderson ls	*Madison*
Lovell, Doris Maxine ls	*Fargo, N. Dak.*

Lovold, Selma Myrtle	*Austin, Minn.*
Luck, Charles Carlton	*Madison*
Luck, Mildred Isabel	*Ripon*
Ludden, Alfred Dexter ls	*Mineral Point*
Luehr, Robert William ls	*Manitowoc*
Lull, Raymond Mills ls	*Milwaukee*
Lundburg, Ehrma Lenore	*Minneapolis, Minn.*
Lundin, Mabel Victoria	*Batavia, Ill.*
Lurry, Teresa Elenor a	*Colfax, La.*
Lurry, Vida Erin a	*Colfax, La.*
Luther, Elizabeth Lodicy ls	*Poynette*
Lutton, Florence Edna	*Toledo, Ohio*
Lutz, Evelyn Marie	*Ashland*
Lutz, Mary Elizabeth	*Rochester, N. Y.*
Lyford, Aimee Eugenie	*Moline, Ill.*
Lyford, Florence Amanda	*Buffalo, Minn.*
Lyford, Harry Burgh ls	*Hampton, Va.*
Lyle, Gladys Viola	*Cadott*
Lyon, Washburn Stark ls	*Milwaukee*
Lyons, George B.	*Brodhead*
Lyons, Maude May	*Brodhead*
Lyons, Thirza Mae	*Madison*
MacArthur, Arthur Stanley	*Niagara*
McCabe, Eugene F., Jr.	*Titusville, Pa.*
McCaffery, Arthur Laurance	*Madison*
McCaffery, Miriam ls	*Madison*
McCann, Elizabeth	*Rockford, Ill.*
McCarthy, Eugene James ls	*Flandreau, S. Dak.*
McCarthy, Nora Hazel	*Edgerton*
McCaslin, Margaret Isabel ls	*East Cleveland, Ohio*
McClimans, Grace, ls	*Franklin, Pa.*
McClure, Leslie Willard ls	*Litchfield, Minn.*
McComb, Edmund Kearsley	*Indianapolis, Ind.*
McConahy, Margaret	*New Castle, Pa.*
McConkey, Fay Bernice ls	*Madison*
McConn, Leonard Preston	*Omaha, Nebr.*
McConnell, John C.	*Youngstown, Ohio*
McCord, Leslie	*Blue Island, Ill.*
McCormack, Mary Elizabeth	*Grand Rapids, Mich.*
McCormick, Charlotte	*Tomahawk*
McCormick, Ethel Helen	*Madison*
McCranner, Ivan Leland ls	*Madison*
McCurdy, Frances Evelyn	*Kansas City, Mo.*
MacDonald, Bettie	*Chicago, Ill.*
MacDonald, Buda	*Flint, Mich.*
MacDonald, Deborah Gene	*Chicago, Ill.*
MacDonald, Esther Madeline	*Manchester, N. H.*
MacDonald, Josephine Cecilia	*Chicago, Ill.*
McDonald, Lawrence ls	*Whitewater*
McDonnell, Eugenia	*Plymouth*
McDowell, Mary Aetna	*Lafayette, Ind.*
McFarland, Gladys M.	*Fredericksburg, Iowa*
McFeely, Evelyn	*Crawfordsville, Ind.*

McGarty, Patricia Helen ls	*Mauston*
McGary, Lester ls, m	*Norwalk*
McGee, Kathleen Annette	*Gladstone, Mich.*
McGinnis, Donald Castle	*Aurora, Ill.*
McGinty, Marie Catherine	*Bear Creek*
McGinty, Maud	*Bear Creek*
McGlenen, Wesley Irving	*Cleveland, Ohio*
McGlone, Ava Cecellia	*Whitehouse, Ohio*
McGlynn, Thomas J.	*Cadott*
McGrath, Malcolm Francis	*Elkader, Iowa*
MacGregor, Donald Alexander ls	*Westfield*
MacGregor, William Grant ls	*Westfield*
McGuire, Harry Joseph ls, m	*Waunakee*
McGuire, Katherine Rosalind	*Cleveland, Ohio*
McHugh, Isma Frances	*Saginaw, Mich.*
MacInnis, Charles Pattison ls	*Pittsburgh, Pa.*
McIntosh, Isabelle Lauder	*Edgerton*
McIntyre, Lucile Eleanor	*Chicago, Ill.*
McKay, Neil Scott ls	*Huron, S. Dak.*
McKee, Janette Joe	*Phillips*
McKeever, Blanche Lowrie ls	*Wilmington, Del.*
McKenzie, Basil Francis	*Turtle Lake*
McKenzie, Helen Natalie	*Kenosha*
McKinley, Edwin Daniel ls, m	*Dodgeville*
McKinley, Jean	*Unionville, Mo.*
MacKinnon, Duncan William Herbert ls	*Menasha*
McKinnon, Stewart McLaren	*Superior*
McKittrick, Seth Redford ls	*Madison*
McKone, Fern Marie	*Green Bay*
MacLachlan, Fergus Greenham	*McFarland*
MacLaren, John Archibald	*Spooner*
MacLean, Margaret Elizabeth	*Beloit*
McLennan, Cordelia Hope	*Quincy, Mass.*
McLevy, Grace Lucy	*Kansas City, Mo.*
McManus, Marie Philbrick	*Madison*
MacMillan, Irene	*Elroy*
MacMillan, Mattie	*Elroy*
McMullen, Glenn J.	*Tomah*
McNall, Helene Margaret	*Lead, S. Dak.*
McNamara, Loretta Margaret	*Superior*
McNary, James Balph	*Madison*
McNicholas, Marguerite	*Plymouth*
McNutt, Lila Elizabeth	*Hortonville*
MacQueen, W. Blair ls	*Oconto*
McQueeney, Elizabeth Margaret	*Elgin, Ill.*
McQuillan, Herbert Raymond	*Rochester, Minn.*
McRae, Grace K.	*Rhinelander*
MacRavey, Frank William ls	*Madison*
McRobert, Carrie Belle	*Cleveland, Ohio*
McRoberts, Ida Aldine	*St. Louis, Mo.*
Mackin, Beda Roberta ls	*Madison*
Mackin, Emily Adeline	*Madison*

Macklin, Louise Muriel	*Madison*
Madsen, Mars Laurice ls, m	*Viborg, S. Dak.*
Madsen, Violet Hansa ls	*Oregon*
Maedje, Carl Waldemar	*East Cleveland, Ohio*
Maedje, Hildegard Louise	*East Cleveland, Ohio*
Magaro, Nick Albert ls	*Kenosha*
Maher, Beatrice, ls, m	*Kalamazoo, Mich.*
Maher, Mary Florence	*Madison*
Maier, Karl Adolph ls	*Milwaukee*
Mailer, Andrew Robert	*Madison*
Makinson, Amy Waugh ls	*Kissimmee, Fla.*
Mallari, Ismael ls	*Manila, P. I.*
Mallies, Edward Herman	*Halstead, Kans.*
Mandeville, Mabelle	*Chicago, Ill.*
Manley, Helen Marie	*Sun Prairie*
Manley, Kathryn Marion	*Sun Prairie*
Manley, Ruth Evelyn	*Sun Prairie*
Mann, Della Garrett ls	*Chicago, Ill.*
Mann, Gustav B.	*Evansville, Ind.*
Mann, John Paris	*Oshkosh*
Mann, Ruth Edna	*Belding, Mich.*
Manning, Charles Edwin	*Hartford*
Mar, Severo Francisco ls, m	*Tampico, Mexico*
Marcellus, Lois	*Toledo, Ohio*
Marine, Fay	*Toledo, Ohio*
Markham, Mildred Marie	*Manitowoc*
Marks, Walter Nathan	*Marion, Ind.*
Marquardt, Gladys Eugenia ls	*Wausau*
Marquart, Philip Butler ls	*Milton Junction*
Marquis, Jean ls	*Berwyn, Ill.*
Marsh, Edna	*Kansas City, Mo.*
Marsh, Herbert Nelson ls	*Stevens Point*
Marshall, Arthur Leonard	*Toledo, Ohio*
Marshall, Asa Thompson	*Minneapolis, Minn.*
Marshall, Elizabeth	*Madison*
Marshall, Gladys Ellen	*Jackson, Mich.*
Marshall, Margaret	*Minneapolis, Minn.*
Marshall, Margaret	*St. Joseph, Mo.*
Marshall, Mary Emma	*Whitewater*
Martin, Henri Ella	*Neshoba, Tenn.*
Martin, Mary Cecilia	*Galesburg, Ill.*
Martin, Neva	*Darlington*
Martinez, Pio B. ls	*San Isidro, Nueva Eiyo, P. I.*
Marvin, Adeline R.	*Oshkosh*
Mason, Estelle Julia	*Mauston*
Mason, Greta Elizabeth	*Milwaukee*
Mason, Jim Ella	*Lexington, Ky.*
Mastaliers, Lester O.	*Kewaunee*
Mathewson, Louis C.	*Mancelona, Mich.*
Mathias, Agnes Frances	*Cleveland, Ohio*
Mathieu, Marion Ilka	*Chippewa Falls*
Matsumoto, Ryozo g	*Tokyo, Japan*
Matthews, Margaret Jean	*Pittsburgh, Pa.*

Matyas, Regina	*Cleveland, Ohio*
Mautz, Bernhard Meyer, Jr. ls	*Madison*
Mavis, Russell Hawthorne	*East Cleveland, Ohio*
Maxwell, Sarah Christine ls	*Cookeville, Tenn.*
May, Ruth Ada	*Lakewood, Ohio*
Mayall, Marie Edith	*Clinton, Ill.*
Mayer, Virginia Iris ls	*Chicago, Ill.*
Mayfield, Emma Elizabeth	*Terre Haute, Ind.*
Mead, Alice Georgiana	*Sheboygan*
Meek, Dudley Holmes	*Madison*
Meid, Marie A. ls	*Indianapolis, Ind.*
Meier, Mahlon M.	*Glen Ridge, N. J.*
Meikle, John	*Monroe*
Meinert, Albert Erwin g. m	*La Crosse*
Meisnest, Leila Amelia ls	*Branch*
Melby, Oscar James	*Eau Claire*
Melcher, Louis C. ls	*Madison*
Melham, Thomas Walter ls	*Watertown, S. Dak.*
Meloy, Marie Jeannette	*Hoopeston, Ill.*
Mendenhall, Catherine ls	*Sheldon, Ill.*
Meng, Eugene Charles ls	*Madison*
Method, Carl Casper	*Toledo, Ohio*
Metz, Agnes Louise	*Cincinnati, Ohio*
Metz, Muriel Lenora	*Cincinnati, Ohio*
Meulemans, August Martin ls	*West Wrightstown*
Meyer, Adeline Josephine ls, l	*Madison*
Meyer, Francis William ls	*Madison*
Meyer, Frank Paul ls	*Oshkosh*
Meyer, Harold F.	*Elburn, Ill.*
Meyer, Hazel Grace	*Madison*
Meyer, Helene Frances	*Holland, Mich.*
Meyer, Lillian Emma	*Detroit, Mich.*
Meyer, Wilma Gertrude	*Holland, Mich.*
Meyers, Gladys Anna ls	*Madison*
Meyers, Harry Joseph	*Cincinnati, Ohio*
Meyers, Helen Amanda ls	*Evansville*
Michaelis, Carlena Jane ls	*Kenosha*
Michels, Hugh C. ls	*Chilton*
Middleton, Jeanette Beulah	*Chicago, Ill.*
Mihigian, Mardig M.	*Van, Armenia*
Miles, Ruth	*Martinsville, Ind.*
Miller, Allen Hollis	*Cairo, Ill.*
Miller, Audrey Jeannette	*Williamsport, Ind.*
Miller, Esther Margaret	*Fort Wayne, Ind.*
Miller, Eva ls	*Milwaukee*
Miller, Gertrude Loretta ls	*Green Bay*
Miller, Helen	*Davenport, Iowa*
Miller, Lillian L.	*Milwaukee*
Miller, Pearl Gertrude	*Columbus*
Million, John Edwards ls	*Springfield, Ill.*
Millman, Donald Simons ls	*Platteville*
Milnitz, Lillie L.	*Milwaukee*
Mina, Patricio Urro e	*Magsingal, P. I.*

Miner, Ernest Darius	*Crandon*
Minor, Hazel Dorothy	*Lafayette, Ind.*
Minshall, Cyrus Bertrand ls	*Madison*
Mishelow, Edward David	*Milwaukee*
Misselhorn, Doris Irene	*Kendallville, Ind.*
Mjelde, Bjarne Arnljot ls	*Stoughton*
Moe, Gena	*Menomonie*
Moe, Thelma Lucille	*Crandon*
Moeck, Arthur Henry ls	*Milwaukee*
Moeller, Dorothea Adeline ls	*Madison*
Moeller, Peter Rudolph ls	*Milwaukee*
Moen, Harriet Emily	*Mason*
Moen, Ida Gertrude	*Mason*
Moeschler, Nellie Frieda	*Stevens Point*
Mohr, Cheryl Isabella ls	*Chicago, Ill.*
Molyneaux, Arthur V.	*Cherokee, Iowa*
Monfried, Clara	*Madison*
Monsen, Hanna Elise	*Milwaukee*
Monson, Eva Carolyn	*Argyle*
Montgomery, Franklin Adams	*Merrill*
Montgomery, Minette Alice	*Green Bay*
Moore, Annie Laurie	*Maplewood, Mo.*
Moore, Claudia Pegues	*Mansfield, La.*
Moore, George Winfred ls	*Superior*
Moore, Mary Nestor	*Wichita, Kans.*
Moore, Nelle Anna	*Pittsfield, Ill.*
Moore, Sarah Eva	*La Grange, Ill.*
Moreau, Fred James ls	*Casco*
Morency, Paul Milfrid	*Oak Park, Ill.*
Morgan, Aileen Emily ls	*Wilmot*
Morgan, Frances Elizabeth	*Washburn*
Morgan, Grace	*Amherst*
Morgan, John Leslie	*Youngstown, Ohio*
Morgan, Lenore Edna	*Cleveland, Ohio*
Morgan, Mildred ls	*Madison*
Morgan, Ruth Elizabeth ls	*Wilmot*
Moroney, Robert Emmet ls	*Dallas, Tex.*
Morris, Ada Josephine ls	*Rice Lake*
Morrissey, Katherine Mary	*Madison*
Morse, Orson Stephen	*Richland Center*
Moseley, Metta	*Beloit*
Moser, Fred J.	*River Falls*
Moser, Robert	*Cumberland*
Moses, Margaret Elizabeth ls	*Eau Claire*
Moss, Mary	*Norway, S. C.*
Mosser, Ruth Carroll	*Abingdon, Ill.*
Mousseau, Agnes Sophronie	*Richland Center*
Muckermann, Edward C.	*St. Louis, Mo.*
Muellenschlader, Helen A.	*Milwaukee*
Muenzberg, Paul Henry ls	*Milwaukee*
Mullins, Hazel Monica	*Grand Rapids, Mich.*
Mullon, Vance Spencer ls	*Chicago, Ill.*
Mulloy, Lucy V.	*Chicago, Ill.*

Mulrooney, Elizabeth Mary ls	*Bloomington*
Munro, Rose Carleton	*Providence, R. I.*
Murphy, Gretta Ellen	*Beaver Dam*
Murphy, Howard James ls	*Delavan*
Murphy, Nelle ls	*Friend, Nebr.*
Murray, Ruth L.	*Detroit, Mich.*
Myers, Vivien Josephine	*St. Louis, Mo.*
Mykel, Kathryn Ciperlie g	*Weyauwega*
Myrland, Eiel Harmon ls	*Madison*
Nagel, Anne Louise	*Mayville*
Nappe, Clara Elizabeth	*Elkhorn*
Nappe, Edgar Herman	*Elkhorn*
Nash, Clara Agnes	*Faulkton, S. Dak.*
Nash, Richard Michael ls	*Madison*
Neff, Lucius Sidney	*Milwaukee*
Niedig, Verna True ls	*Plankinton, S. Dak.*
Nelson, Carl Irvin	*Pardeeville*
Nelson, Earl Loyal	*Rockford, Ill.*
Nelson, Elmer Harry e	*Racine*
Nelson, Flora	*Milwaukee*
Nelson, Laura Marsh ls	*Milwaukee*
Nelson, Lottie Mathilda	*Deerfield*
Nerdrum, Ruth Elfreda ls	*Madison*
Nesbitt, Fantie	*Dayton, Ohio*
Nesbitt, Melanie	*Webb City, Mo.*
Neubauer, Greta F.	*Hildreth, Nebr.*
Neuling, Wilma Elizabeth ls	*Wausau*
Nevins, Charles Veranus	*Oshkosh*
Newlun, Chester O.	*Marshfield*
Newsom, Frank Charles	*Columbus, Ind.*
Newsome, Verna Louise ls	*Waupaca*
Newton, Lee Waid	*Grand Rapids, Mich.*
Nichol, Walter Howard	*Marinette*
Nichols, George Arthur	*Tomah*
Nichols, Helen Marie g	*Savannah, Mo.*
Nichols, Maud Norris	*Madison*
Nichols, William Edmund	*Oshkosh*
Nicolai, Fred Ernest	*Milwaukee*
Niemann, Carl Henry	*Racine*
Nimlos, Mary Ruthella ls	*Madison*
Nimlos, Myrtle Iona ls	*Madison*
Noblitt, Ivan Earl	*Fargo, Ind.*
Nodine, Vera Alberta ls	*Waterloo, Ind.*
Nodolf, Clement Edward	*Platteville*
Noffz, William Edward	*Oconto*
Nolden, Genevieve	*Madison*
Nor-Kaitis, Kathryn Verne	*St. Charles, Ill.*
Norris, Lucile Maria	*Chicago, Ill.*
Norris, Maude Ethel	*La Porte, Ind.*
Novach, Catherine Blanche	*Kenosha*
Nusbaum, Juliet Amelia	*Richmond, Ind.*
Nussbaumer, Phyllis Ella May	*Chicago, Ill.*
Oakey, John Howard	*Madison*

O'Brien, Clotilde Mary	*Milwaukee*
O'Brien, Katharine Gertrude	*Kansas City, Mo.*
O'Brien, Louis Joseph ls	*Danville, Ill.*
Ochsner, Stanley Edward ls	*Prairie du Sac*
O'Connell, Alfred Patrick	*Roberts*
O'Connell, Earl George	*Madison*
O'Connell, Eula Beatrice	*Hutchinson, Kans.*
O'Connell, William Francis	*Roberts*
Odell, Athol Francis ls	*Quincy, Ill.*
O'Dwyer, Lucille Cecelia	*Dane*
Oechsner, Julia Dorothy ls	*New Orleans, La.*
Oesau, Theodore J.	*Milwaukee*
Officer, Florence Germaine	*Milwaukee*
Ogden, Ronald Mark	*Laketon, Ind.*
Ohlson, Guy Edward ls, m	*La Crosse*
O'Hora, James Timothy ls, m	*Mazomanie*
Olander, Milton Martin	*Rockford, Ill.*
Olcott, Emma	*Milwaukee*
Oldridge, Chloe	*Mondovi*
Olson, Hazel B.	*Baldwin*
O'Malley, Letitia Magdalen ls	*Madison*
O'Neil, Margaret Ethel	*Cloquet, Minn.*
O'Neill, Mary Lillian	*Rochester, N. Y.*
Oppenheim, Edwin B.	*Detroit, Mich.*
Opsahl, Stanley Owen	*Viroqua*
Orman, Shirley Sherman	*Bowling Green, Ind.*
Ormond, Roy Bazanquith ls	*Brookfield*
O'Rourke, Gavin William	*Oshkosh*
Ortega, Ricardo Magnaloo ls	*Tarlac, Tarloc, P. I.*
Orton, Miriam Rockwood ls	*Darlington*
Orvald, Bessie Henrietta	*Superior*
Osborn, Arthur Sprague	*Kansas City, Mo.*
Ostrum, James E.	*Hancock*
Otier, Agnes Frances	*Superior*
Ott, Voyle David	*Racine*
Owen, William Henry, Jr.	*Lebanon, Mo.*
Owens, Elizabeth Underwood	*Corvallis, Ore.*
Owens, Glenn	*Dodgeville*
Ozburn, William Angus ls	*Madison*
Pabst, August Uihlein	*Oconomowoc*
Page, Arnold Seaver ls	*Kansas City, Mo.*
Painter, Virginia E.	*Lock Haven, Pa.*
Palmer, Ethel	*North Star, Mich.*
Palmer, Merle Colby	*Columbus*
Palmer, Norma Belle	*Cleveland, Ohio*
Pantzer, Margaret mu	*Sheboygan*
Parker, Cordelia Jane	*Bloomington, Ill.*
Parkhill, Bruce Simeral	*Oak Park, Ill.*
Parkhill, Mercy Simeral	*Oak Park, Ill.*
Parkhill, Ruth Willard ls	*Chicago, Ill.*
Parmley, John Hahnemann a	*Madison*
Parks, Naomi Beatty	*Girard, Ill.*
Paroni, Anthony ls	*Piedmont, Cal.*

Parrhysius, Myrtle Juanita	*Hutchinson, Minn.*
Parrish, Ella Taylor	*Kansas City, Mo.*
Pasch, Lester Adolph ls	*Milwaukee*
Patterson, Mae	*Rineyville, Ky.*
Patton, Margaret H.	*Moline, Ill.*
Paukner, Lillian Christine	*Milwaukee*
Paul, Clara Gloria	*Weatherly, Pa.*
Paul, Harold James	*Muskegon, Mich.*
Paull, Roscoe Alvin ls	*Ridgeway*
Paulson, Florence Matilda	*Rockford, Ill.*
Paulus, Gene Marie	*Milwaukee*
Paulus, Margaret Elizabeth	*Milwaukee*
Peach, Lloyd	*Edgerton*
Pearson, Ralph Jenkins ls	*Madison*
Pease, Ethel Elaine	*Hortonville*
Pebbles, William Smith, Jr. ls	*Lawrenceville, Va.*
Pegues, Lollie E.	*Mansfield, La.*
Pelnar, Alfred Wayne e	*Madison*
Pendergast, Marie Margaret	*Kansas City, Mo.*
Perkins, Thelma	*Helmer, Ind.*
Perrigo, Harold Williams ls	*Oshkosh*
Perry, William Richard	*Omaha, Nebr.*
Perstein, Frances Ruth ls, m	*Madison*
Perstein, Maurice ls	*Madison*
Pesch, Marie Salm ls	*Madison*
Pestalozzi, Hasso Karl g	*Milwaukee*
Pestien, Mabel Gertrude	*Sheboygan*
Peters, Charles Frederick	*Madison*
Peters, Katherine	*Brooklyn, N. Y.*
Peters, Mary Adeline ls	*Birmingham, Ala.*
Peters, Reaves Edwin	*Warrensburg, Mo.*
Petersen, Margaret Christine	*Eau Claire*
Peterson, Carl Victor	*Washburn, N. Dak.*
Peterson, Ephraim Lucius ls	*Stockholm*
Peterson, Leo Willis	*Granton*
Peterson, Lester William ls	*Leonardsville, N. Y.*
Peterson, May Marguerite ls	*Sterling, Ill.*
Peterson, Nels Andrew	*Sheboygan*
Peterson, Peter	*Racine*
Peterson, Ruth Agnes	*Wausau*
Petterson, Walter Hastropp l	*Ephraim*
Pettus, Gertrude	*Louisville, Ky.*
Pfeiffer, Albert Herman ls	*Madison*
Pfeil, Mae Matilda	*Woodstock, Ill.*
Pfister, Walter John ls	*Sheboygan*
Pfleger, Edna	*Cincinnati, Ohio*
Phelan, Gerard M.	*Kenosha*
Phillips, Arthur Gleason ls	*Chicago, Ill*
Phillips, Edna Elizabeth	*Buckner, Mo.*
Phillips, Emily Sarah Margaret	*Dubuque, Iowa*
Phillips, Robert Titus	*Boston, Mass.*
Pickering, Elizabeth ls	*Madison*
Pickett, Ethel Day	*Kansas City, Mo.*

Pike, Elsie Marie	*Wabash, Ind.*
Pillow, Madge Porter	*Pittsburgh, Pa.*
Pinkstaff, Virgil Ira	*St. Louis, Mo.*
Pinto, Jane Wentworth	*Racine*
Pinto, René Wentworth ls	*Madison*
Pofe, Olga Erna	*Milwaukee*
Pohle, Genevieve A. ls	*Madison*
Pokorny, Earl Joseph ls	*Racine*
Polk, Ralph Weiss	*St. Joseph, Mo.*
Pollard, Joseph Greeley	*Omaha, Nebr.*
Pollworth, Alice Lillian	*Milwaukee*
Pollworth, Florence Alice	*Milwaukee*
Pope, Naomi Todd	*Glencoe, Ill.*
Porter, Catherine Alice ls	*Madison*
Porter, Catharine Harriet ls	*Oak Park, Ill.*
Porter, Colby Arthur ls	*Fox Lake*
Porter, George Fuller	*Bloomington*
Porter, Ruth Elizabeth	*Atkinson, Ill.*
Powell, Horace Breese ls	*Milwaukee*
Powell, Lady May	*Washington, D. C.*
Powell, Meta Harriet	*Rockford, Ill.*
Pratt, Velmer D.	*Madison*
Presser, Erwin Joseph ls	*Milwaukee*
Preus, Elise Didrikke	*Thorpe*
Pribnow, Mildred Hildegarde ls	*Virginia, Minn.*
Price, Edna Olive	*Seventy-Six, Mo.*
Price, Reginald John ls	*Prescott*
Prideaux, Nettie Gertrude ls	*Mineral Point*
Prien, Elza J.	*Madison*
Pritchard, Forrest Chester ls	*Prophetstown, Ill.*
Pritchard, Frank Cary	*Madison*
Pritchett, Erna Margaret	*Decatur, Ill.*
Prucka, Rudolph William	*Mishicot*
Prugger, May Emily	*Milwaukee*
Puchner, John Rudolph	*Madison*
Purnell, William Henry ls	*Kenosha*
Putnam, Grace Amelia	*Moline, Ill.*
Quandt, Verna May	*Detroit, Mich.*
Queeman, Ethel Angeline	*Milwaukee*
Quinlan, Margaret Amelia	*Antigo*
Quirk, Martin	*Long Branch, N. J.*
Radcliffe, Ruby Marie	*Eagle River*
Radke, Ruth Miriam	*Cleveland, Ohio*
Ragatz, Wilmer LeRoy ls	*Madison*
Rai, Narabhoof	*Bengal, India*
Rakosi, Carl Schiller ls	*Kenosha*
Raleigh, Marion Katherine	*Chilton*
Ralston, Geraldine	*Melrose*
Ransom, Eunice Rae ls	*Fennimore*
Ransom, Ida Ethelyn	*Palestine, Ill.*
Rasmussen, Edna Amelia	*St. Louis, Mo.*
Rastede, Ethel Bernice	*Morrison, Ill.*
Rathbun, Marion Julia	*Madison*

Ravagnani, Albert	*Madison*
Rawlings, Marjorie Alice	*Cicero, Ill.*
Ray, C. Harold	*Milwaukee*
Ray, Dorothy Margarette ls	*Madison*
Raymond, John Lloyd	*Fairchild*
Read, Lillian Fairchild	*Minneapolis, Minn.*
Reade, Anna Ruth	*Indianapolis, Ind.*
Reading, Clyde William	*Oak Park, Ill.*
Rebuschatis, Marion	*Washington, D. C.*
Reed, David Clifford	*Rocky River, Ohio*
Reed, Ella	*Omaha, Nebr.*
Reed, Ivy	*Lincoln, Nebr.*
Reef, Walter Ester	*Dayton, Ohio*
Reese, Lillie M.	*Letohatchee, Ala.*
Reetz, Otto Anton	*Bloomer*
Reeves, Frank Weir a	*Helena, Ark.*
Regan, Frances Louise	*Rockford, Ill.*
Reichert, C. Lorena	*Madison*
Reid, Rena	*Kansas City, Mo.*
Reilly, Lucille Agnes ls	*Fond du Lac*
Rein, Lewis Stewart	*Hurley*
Reinhardt, Gwendolyn	*Fountain City*
Reinking, John Juergen ls	*Madison*
Reitan, Rudolph Norman ls, l	*Bonduel*
Reitan, Thora Mathilda ls	*Bonduel*
Reitsch, Edward Ernest	*Rockford, Ill.*
Reitter, Rose Mabel	*Saginaw, Mich.*
Retzer, John Peter l	*Milwaukee*
Reyer, Harold Benedict ls	*Colby*
Reynolds Gertrude Morris	*Charleston, W. Va.*
Reynolds, Neal Clinton	*Madison*
Rhoads, Harriet Cornelia	*Waukesha*
Rice, Gertrude Anna	*Chicago, Ill.*
Rice, Irving James	*St. Paul, Minn.*
Rice, Jane Spencer	*Terre Haute, Ind.*
Rich, Edward Corydon	*Keokuk, Iowa*
Richards, Sophia E.	*Kansas City, Mo.*
Richardson, Carolyn M. ls	*Delavan*
Richardson, Clarissa	*Vicksburg, Miss.*
Richardson, George Melvin	*Lawrence, Kans.*
Richardson, Philomene Gertrude	*Detroit, Mich.*
Richardson, Ruby Belle	*Dane*
Riddell, Elizabeth Frances ls	*Oak Park, Ill.*
Ridge, Harvey John	*Whitewater*
Rieck, Gladys Margaret	*Madison*
Rieder, Marguerite Albertine ls	*Madison*
Rifleman, Armilda	*Wausau*
Riley, Aileen	*Indianapolis, Ind.*
Ripley, Dorothy Susan	*Chicago, Ill.*
Ripperton, Clara B.	*Wichita, Kans.*
Ripperton, Helen	*Wichita, Kans.*
Ritzenthaler, Otto Martin ls	*Baraboo*
Rivard, Raymond Robert ls, m	*Madison*

Roark, Kathleen	*Madison*
Roberts, Armintha May	*Wilton*
Roberts, Blanche Edna	*Union Grove*
Roberts, Catharine Jarden	*Marlton, N. J.*
Roberts, Genevieve Hyacinth	*Galesburg, Ill.*
Roberts, Richard A. ls	*Chicago, Ill.*
Robertson, Clark Mead	*Plymouth*
Robertson, LeRoy Link ls	*St. Louis, Mo.*
Robertson, Maude M.	*Milwaukee*
Robinson, Eugene J.	*Dayton, Ohio*
Robinson, Josephine Edith ls	*Milwaukee*
Robinson, Virginia Cecile	*Pana, Ill.*
Robison, Burke H. ls	*Indianapolis, Ind.*
Rock, Edward P.	*Hudson*
Rockwell, Katherine Edith ls	*Oshkosh*
Rockwell, Ruth Evelyn	*Crown Point, Ind.*
Roddy, Rhea Goodson	*Forney, Tex.*
Rodger, Frances Agnes	*Fox Lake*
Roeder, Augusta	*St. Louis, Mo.*
Roeder, Jeannette Rosebrough	*St. Louis, Mo.*
Rogatz, Maurice ls	*Niagara*
Rohde, Berolina Theressa	*Estherville, Iowa*
Rohr, James Earl	*Nekoosa*
Rohr, Valerie	*St. Louis, Mo.*
Rollefson, Aimar Hermo ls	*Superior*
Ronig, Ruth Evangeline ls	*Madison*
Romoser, Ruth	*Milwaukee*
Rood, Alice Ekern	*Madison*
Rood, Louis P.	*Racine*
Rosenberg, Beatrice	*Milwaukee*
Rosenberg, Edwin Herbert	*Madison*
Rosenberg, Harry	*Chicago, Ill.*
Rosenberger, John Anthony	*Cedar Falls, Iowa*
Rosenblum, Charlotte Esther	*New York, N. Y.*
Rosentreter, Fred William ls	*Oshkosh*
Ross, Cornelius Austin ls	*Doon, Iowa*
Ross, Julia Anne ls	*Richland Center*
Rossman, Louella Mae	*Marshfield*
Rossmeissl, Carl Albert ls	*Appleton*
Rossy, Norma Aminda	*San Antonio, Tex.*
Roth, Eleanor Anna ls	*St. Louis, Mo.*
Rothschild, Leota Thomas	*Macon, Mo.*
Rott, Ella Verona	*Wonewoc*
Rounds, Harold Boyd	*Eau Claire*
Rowland, Charles Crawford ls	*Dixon, Ill.*
Rowland, David Hand ls	*Racine*
Rowland, John Scofield	*Racine*
Rowley, Margaret Leone ls	*Madison*
Rowley, Willson Jayne	*St. Louis, Mo.*
Royce, Frances Lavina ls	*Madison*
Royce, Harvey Day ls	*Fort Atkinson*
Royston, Rosine	*Pine Bluff, Ark.*
Ruckelshaus, John Kiley	*Indianapolis, Ind.*

Rud, Natalie Margaret ls	*Chicago, Ill.*
Rudie, Neil H.	*Westby*
Ruffolo, Anthony ls	*Racine*
Ruggles, Ruth Mary ls	*Wausau*
Runge, Erna Emma	*Milwaukee*
Rusch, Mabel Anna	*Wausau*
Russell, Ernest	*Great Bend, Kans.*
Russell, Kathryn Angeline ls	*Flandreau, S. Dak.*
Russell, Louis Alfred	*Endeavor*
Russell, Ruth	*Great Bend, Kans.*
Rust, Clarence Arthur ls	*Edgerton, Minn.*
Rusterholz, Carl Henry	*Manitowoc*
Ruth, Mary Anne	*Horton, Kans.*
Rutherford, William Thomas g	*Milwaukee*
Rutledge, Jessie H.	*Sparta*
Rutter, Mary Lee ls	*Madison*
Ryan, Katherine Frances ls	*Chicago, Ill.*
Ryan, Mary Ruth	*Detroit, Mich.*
Rydell, Otto Ellwood	*Superior*
Ryder, Leon Wallace	*Princeton*
Rydjord, John ls	*Lily, S. Dak.*
Sabin, Samuel Henry a	*Academy, S. Dak.*
Sahgal, Bansi Lal	*Hydrahao, Deccan, India*
Salter, Pearl Dorothey	*Prentice*
Sammis, Josephine Louise ls	*Madison*
Sanborn, Minnie Lyvonia	*Sparta*
Sandberg, Oscar Edward	*Waukesha*
Sander, Esther Adele ls	*Fond du Lac*
Sanders, Ella Jane	*Jonesboro, Ill.*
Sandquist, Freida Olga	*Minneapolis, Minn.*
Sanford, James Richard	*Farmington, Minn.*
Sanford, Leonard Laverne	*Viola*
Saris, Lucile Alicia	*Beloit*
Sattler, Edith Belle	*Ripon*
Sauerhering, Mabel Johanna a	*Hartford*
Sawyer, Frances Marie ls	*South Milwaukee*
Scanlan, Irene Kathryn	*Cato*
Scarborough, Celia Jane	*Cincinnati, Ohio*
Scarborough, Levi David	*Area, Ill.*
Schachner, Marguerite Gertrude	*Chicago, Ill.*
Schacht, Hildegarde Lydia	*Racine*
Schaefer, Ingerborg	*Chicago, Ill.*
Schaefer, Viola Velma ls	*Milwaukee*
Schafer, Beatrice Eleanor	*Cleveland, Ohio*
Schafer, Ethel Johanna	*Hurley*
Schafer, Paul ls	*Madison*
Schalk, Ella Martha ls	*Berlin*
Schaper, Dorothy	*Milwaukee*
Schaub, Carl Frederick	*Marion*
Schauer, Hilmer Benjamin	*Hartford*
Schaufler, Gertrude Marie	*Racine*
Schee, John Huston ls	*Des Moines, Iowa*
Scheibel, Dorothy Fay ls	*Madison*

Scheinpflug, Ralph Kenneth ls	*Boscobel*
Schidlo, Raymond R. ls	*Westfield*
Schilling, Elisabeth Magdalen	*Berlin*
Schilling, Ethel Florence	*Green Bay*
Schindler, George Edward	*Ashland*
Schleck, Leo Peter ls	*Madison*
Schlesinger, Clara	*Farrell, Pa.*
Schlichting, Louise A. ls	*New York, N. Y.*
Schlosser, Blanche Emily	*Crivitz*
Schlosser, Francis F.	*Crivitz*
Schlosser, Helen Elizabeth ls	*Wauwatosa*
Schlotthauer, George McDormit ls	*Madison*
Schmedel, Frances Adrienne	*Indianapolis, Ind.*
Schmidt, Dorothea Marguerite ls	*Freeport, Ill.*
Schmidt, Esther Louise	*Naperville, Ill.*
Schmidt, Faye Ellis ls	*Madison*
Schmidt, Lalle	*Fond du Lac*
Schmidt, Lydia H.	*Milwaukee*
Schmidt, Samuel Frederick ls	*Madison*
Schmiege, Herbert John	*Appleton*
Schmitz, Gilbert J. B. ls	*Madison*
Schmitz, Robert Morell	*St. Louis, Mo.*
Schnakenburg, Regina	*Kansas City, Mo.*
Schnaple, Margaret Henrietta	*Detroit, Mich.*
Schneiders, Rufus Anton ls, m	*Marathon*
Schneyer, Oscar Louis	*Bloomington*
Schnittger, Margaret Gretchen A.	*Superior*
Schoechert, Adolph Emil ls	*Whitewater*
Schoener, Celesta Florence	*Clinton, Iowa*
Schoenknecht, Fred William ls	*Milwaukee*
Scholten, Adrian Herman ls	*Valley Springs, S. Dak.*
Schouten, John H. L.	*Holland, Mich.*
Schroeder, Fred William	*Nashville, Ill.*
Schroeder, Helen E.	*Augusta*
Schuelke, Della Augusta	*Marshfield*
Schuelke, Theda Rosalia	*Marshfield*
Schuetz, Emma Victoria	*Sheboygan*
Schuetz, Etta Emilie	*Sheboygan*
Schujahn, Edwin Ludwig ls	*Fond du Lac*
Schulthess, Lena Pauline	*Horton, Kans.*
Schulz, Anna Mary	*Richmond, Ind.*
Schulz, Irwin Paul William	*Milwaukee*
Schulz, Irene Elizabeth	*Chicago, Ill.*
Schwabe, Gertrude	*Milwaukee*
Schwarberg, Hazel Margaret	*Newport, Ky.*
Schwarz, Alexander John ls	*Chilton*
Schweiger, Leo Joseph ls, m	*Cashton*
Scofield, Marion	*Oconto*
Scott, Fannie May	*Urbana, Ill.*
Scott, James Donald	*Davenport, Iowa*
Scott, Laura Mason	*Lexington, Ky.*
Scott, Ralph Vernon ls	*Hardin, Mont.*
Seaman, Cedric Edward ls	*Markesan*

SeCheverell, Marian ls	*Madison*
Seckel, Sallie	*Paris, Texas*
Seegar, Nellie	*Forest Park, Ill.*
Seeger, Ruth Helen	*Manitowoc*
Sehon, (Miss) George Louise	*Louisville, Ky.*
Seibold, Fred Carl l	*Camp Douglas*
Seids, Carl Frederick	*Moline, Ill.*
Seids, John William, Jr.	*Moline, Ill.*
Seitz, Harry William	*Henry, Ill.*
Seman, Anne Marie	*Granton*
Semer, Susan Martha	*Winnetka, Ill.*
Serra, Josephine	*Bessemer, Mich.*
Severance, Clare McHenry ls	*Madison*
Sexton, Joseph Cantwell ls	*Madison*
Shafer, Eloise	*Merrill*
Shaner, Dorothy Romaine ls	*Philadelphia, Pa.*
Shao, Chia Lin ls	*Shanghai, China*
Shao, Yuan Chong ls	*Shanghai, China*
Shapiro, Herman Joseph ls. l	*Madison*
Sharp, Norman Graves Eyles ls	*Corning, N. Y.*
Shattuck, Minnie Grace	*Pontiac, Mich.*
Shaw, Blanche Burckhardt	*Indianapolis, Ind.*
Shaw, Gerald William ls	*Waunakee*
Shea, Ina	*Blencoe, Iowa*
Shea, Julia Agatha	*Green Bay*
Shearer, Eleanor Constance	*Madison*
Shearer, Kathryn Jane ls	*Madison*
Shelhammer, John Wesley ls	*Blackwell*
Shelp, Margaret Isabelle	*Rhinelander*
Shen, Hsiung Ching	*Shanghai, China*
Shen, Leo g	*Peking, China*
Shepard, Vida M. ls	*Madison*
Shepherd, Genevieve Beebe	*Minneapolis, Minn.*
Shepherd, Walter R.	*Platteville*
Sherman, Wells Alvord, Jr.	*Vienna, Va.*
Shiao, Lian Po	*Peking, China*
Shirey, Hazelbelle ls	*Madison*
Shirley, Ruth	*Paris, Ill.*
Shockey, Franklin Perry ls	*Oak Park, Ill.*
Sholts, Mary Eliza	*Mazomanie*
Short, Fred	*River Falls*
Showerman, Anita May	*Madison*
Shumway, Doris Elizabeth	*Stevens Point*
Sickler, Lucy A. Meharry	*Lafayette, Ind.*
Sickler, Pearl Meharry	*Lafayette, Ind.*
Sidler, Agnes	*Milwaukee*
Siegel, Charles Milton	*Newport, Ky.*
Sikir, William Frank	*Aroca*
Silbernagel, Edward A.	*Wausau*
Siljan, Pearl Marie ls	*Madison*
Simmerman, Ethel Olive	*Cornell*
Simon, Leila Augusta	*Lewiston, Minn.*
Simpson, Clara Bell	*Portsmouth, Ohio*

Simpson, Hazel Lillian	*Chicago, Ill.*
Sinaiko, Abraham ls, m	*Madison*
Sinaiko, Clara ls	*Madison*
Sinaiko, Herman Louis ls	*Madison*
Sinaiko, Joseph Jacob	*Madison*
Sinaiko, Leila	*Madison*
Sinclair, Ruth	*Sioux City, Iowa*
Singleton, Elizabeth Anne ls	*Wilmette, Ill.*
Sister Mary Barbara Maurer	*Sinsinawa*
Sister Mary Donata Wahl	*Madison*
Sister Mary Elaine Hegeman	*Racine*
Sister Mary Generose Thies	*Racine*
Sister Mary Hand Faith	*Sinsinawa*
Sister Mary Jane Shilling	*Racine*
Sister Mary Joan Doyle	*Racine*
Sister Mary Leona Sexton	*Madison*
Sister Mary Lorettine Miller O. S. D.	*Oshkosh*
Sister Maria Loughrin	*Madison*
Sister Mary Michael Regan	*Madison*
Sister Mary Rinaldo Donehue	*Madison*
Sister Marie Rose O'Callahan	*Sinsinawa Mound*
Sister Mary Serena Reynolds	*Madison*
Sister Mary Vincentius Collins	*Dubuque, Iowa*
Skaife, Lelia Floy	*Livingston*
Skavlem, Rebecca Janet	*Madison*
Skowlund, William Nelson	*Oshkosh*
Slagg, Rodney Arthur ls	*Ft. Atkinson*
Slesinger, Stephen	*Cody, Wyo.*
Slinger, Maarten	*West Allis*
Slotten, Rollie Moody	*Dodgeville*
Smart, Annie ls	*Dallas, Texas*
Smart, Mabel Clare	*Oak Park, Ill.*
Smith, B. Arthur	*Sullivan, Ill.*
Smith, Cornelius Wilkie	*Syracuse, N. Y.*
Smith, Dorothea Emma	*Peoria, Ill.*
Smith, Ermin ls	*Wisconsin Rapids*
Smith, Florence Mary	*Detroit, Mich.*
Smith, Florence Mary a	*Madison*
Smith, Floyd	*Menasha*
Smith, Frank Redford	*Pleasureville, Ky.*
Smith, Harold Clinton ls	*Madison*
Smith, Jeanette Felice	*Chicago, Ill.*
Smith, Leta Frances	*Decatur, Ill.*
Smith, Lewis Pettibone	*Chicago, Ill.*
Smith, Lida May	*Poplarville, Miss.*
Smith, Lucy Elizabeth	*Augusta*
Smith, Merl Grant	*Florence, Kans.*
Smith, Richard Riker	*Yorkville, Ill.*
Smith, Vida Violet	*Mondovi*
Smith, William Stuart ls	*Appleton*
Smoot, Lida Lee	*Kansas City, Mo.*
Snir, Hazel Rose	*Pittsburgh, Pa.*

Snyder, Grace Opal ls	*Rockford, Ill.*
Socha, Jessamine	*Racine*
Soecknick, Elsa Lucie	*St. Louis, Mo.*
Solomonson, Carl	*Rockford, Ill.*
Sorensen, Raymond Joy	*East Ellsworth*
Southard, Charlotte Almera	*Toledo, Ohio*
Sowden, Anna Gertrude	*Detroit, Mich.*
Sparks, Ferne	*Lincoln, Ill.*
Spence, Etta Eola	*Madison*
Sperle, Sara Ottina	*McFarland*
Sperling, Hugo Ernst	*Sheboygan*
Speth, Gertrude Caroline	*Belmont*
Spiering, Eleonore Louise	*Mayville*
Sprester, Marjorie Marie	*Black River Falls*
Sprester, Olivia Katheryn	*Black River Falls*
Springer, Ruth	*Sullivan, Ind.*
Springhorn, Rita	*Racine*
Stadler, Joseph August	*Kansas City, Mo.*
Stafford, Harold Daniel ls	*Waupaca*
Stafford, Harold Stanley	*Madison*
Stafford, M. Ellen	*Kansas City, Mo.*
Stainer, Marie Bertha	*Port Washington*
Stalker, D. Norman ls	*Toledo, Ohio*
Stambaugh, Philip Sheridan ls	*Stoughton*
Standiford, Ifa Doran	*Wilton*
Starr, Beulah	*Richland Center*
Starr, Emma G.	*Louisville, Ky.*
Stauffer, Robert Miller	*North Manchester, Ind.*
Stavrum, Thomas Lowell ls	*La Crosse*
Stedman, Helen Ruth ls	*Waupaca*
Steeholm, Hardy ls	*Madison*
Steele, Mary Selma	*Vicksburg, Miss.*
Stenson, Carrie A.	*Bruce*
Stephens, Ethel Lois	*Platteville*
Stephenson, Ruth	*Cincinnati, Ohio*
Sterk, Joseph Peter	*Calumet, Mich.*
Stevens, George Oliver ls	*Chicago, Ill.*
Stevenson, Virginia Elizabeth	*St. Louis, Mo.*
Stewart, Hazel Emmerette ls	*Janesville*
Stewart, James Jewell ls	*Madison*
Stewart, Jean Blundell ls	*West Allis*
Stewart, Lillian Victoria ls	*Madison*
Stiles, Florence M.	*Summit, S. Dak.*
Stillman, Jay Howard	*Peshtigo*
Stinson, Mary Gilliam	*Mount Vernon, Ind.*
Stites, Archer Cochran ls	*Madison*
Stockdale, Ethol Wagner ls	*Milwaukee*
Stoddard, Clara Beatrice	*Detroit, Mich.*
Stoffregen, Anna Catarina ls	*Rockville, Md.*
Stoll, Mary Naomi	*Pontiac, Mich.*
Stolte, Emma Mary	*Fort Wayne, Ind.*
Stone, Judson Mayhew	*Wilmette, Ill.*
Straagaard, Besse Warren	*Herscher, Ill.*

Straagaard, J. N.	*Herscher, Ill.*
Strahan, Margaret	*Grand Rapids, Mich.*
Strause, Evan Bryson	*Gibson City, Ill.*
Strom, George Arthur	*White Creek*
Strossman, Marion Rae	*Aurora, Ill.*
Stroup, Helen Gladys ls	*Grand Rapids, Mich.*
Stubkjaer, Muriel	*Lake Preston, S. Dak.*
Stuckey, Helen Elisabeth ls	*Rockford, Ill.*
Stucki, John Calvin ls, m	*Black River Falls*
Stuebing, Albert Carl ls	*Sioux Falls, S. Dak.*
Stute, Leona Henrietta	*Evansville, Ind.*
Suchey, Lillian May	*Sturgeon Bay*
Siuno, Lorenz E. ls	*Iron Mountain, Mich.*
Sullivan, Floyd Edmond	*Wausau*
Sullivan, Veronica Mary ls	*Madison*
Sumerlin, Bertha Louise	*Indianapolis, Ind.*
Summers, A. Burkt	*Washington, D. C.*
Summers, Myrl Aurelia ls	*Huntington, Ind.*
Sun, Tsing-faung Alfred ls	*Shanghai, China*
Sutton, Henry Francis	*Green Bay*
Svitavsky, Anna	*Racine*
Swanson, Edward Edwin	*Indianapolis, Ind.*
Swanson, Ida Christine	*Marinette*
Swantz, Leona Amelia	*Union Grove*
Swart, John Alvah	*Babbitt, Minn.*
Swenson, Ruth Florence	*Chicago, Ill.*
Swift, George ls	*Chicago, Ill.*
Swift, John Dewey ls	*Darlington*
Swiggum, Mary Elmira	*Blanchardville*
Swinney, Zillah Hedger ls	*Madison*
Sylvester, Walter Herbert ls	*Wauwatosa*
Tafel, Olga Alma ls	*Louisville, Ky.*
Tague, Alice Marian	*Paintsville, Ky.*
Tang, Ching Tseng ls	*Wusih, China*
Tang, Tao Yuan ls	*Wusih, China*
Tangney, Homer Francis	*Kilbourn*
Tappins, Noble Lyon ls	*Madison*
Taylor, Adeline Olcott	*La Crosse*
Taylor, Berenice Lucile	*Princeville, Ill.*
Taylor, Edna Colvin	*Westfield*
Taylor, Elizabeth ls	*Greenville, Miss.*
Taylor, Everett Bailey	*Miamisburg, Ohio*
Taylor, Mary Claire	*Deerwood, Minn.*
Taylor, Mary Ella	*Washington, D. C.*
Taylor, Parrie May	*Mooresville, Ind.*
Taylor, Willard Waltheim	*Whitewater*
Tazelaar, Ada Martha	*Kalamazoo, Mich.*
Tegen, Albert Frederick ls	*Manitowoc*
Tellier, Delia Agnes	*Phillips*
Ten Eyck, Mary Carolyn	*Santa Fe, N. Mex.*
Terrell, Frances Ellen	*Indianapolis, Ind.*
Thackray, Glenn Henry	*Glenbeulah*
Thams, Mildred Augusta	*Chicago, Ill.*

Theiss, Frances Margaret	*Chicago, Ill.*
Thewlis, Ethel	*Milwaukee*
Thom, Camilla Linn	*Minonk, Ill.*
Thoma, Edward Patrick	*Mineral Point*
Thomas, James Roy	*Loyal*
Thomas, Margaret Augusta ls	*Wauwatosa*
Thomas, Margaret Belle	*Louisville, Ky.*
Thomas, Warren Stratman ls, m	*Minneapolis, Minn.*
Thompson, Albert Wheeler ls	*Madison*
Thompson, Gladys Eleanor ls	*Chicago, Ill.*
Thompson, Helen Josephine	*Fort Wayne, Ind.*
Thompson, Julia Catherine	*Racine*
Thompson, Martha Louise	*Indianapolis, Ind.*
Thompson, Stuart Edward ls	*Neenah*
Thompson, Troy Melvin	*Madison*
Thomson, Janet Elizabeth	*Oregon*
Throne, Mildred Irene	*Cullom, Ill.*
Thurston, Katherine Eloise	*Oberlin, Ohio*
Thwing, Elizabeth ls	*Maumee, Ohio*
Tiedtke, Frances H.	*Toledo, Ohio*
Tillisch, M. Ravn ls	*Merrill*
Timmons, Julia Mae	*Indianapolis, Ind.*
Tischner, Theodore	*Milwaukee*
Tobey, Alice Marjorie a	*Wausau*
Tobey, Paul Titus ls	*Wausau*
Todd, Marjorie ls	*St. Louis, Mo.*
Toelle, Florence Susie	*Sheboygan*
Toepfer, Esther Ottilie ls	*Madison*
Toepfer, Raymond August ls	*Oregon*
Tolerton, Mary Ellen	*Alliance, Ohio*
Tolerton, Robert Isreal ls	*Alliance, Ohio*
Tomlinson, Helen	*Eau Claire*
Tomlinson, Theodore Hubert	*Eau Claire*
Tomsich, Mario Benjamin	*Gary, Ind.*
Torbet, James Allan ls	*Minneapolis, Minn.*
Tough, Rosalind ls	*Madison*
Tousley, Evelyn Victoria ls	*East Cleveland, Ohio*
Towle, Norman Leslie	*Oak Park, Ill.*
Townsend, Alice Rappleye	*Milwaukee*
Townsend, Mary Jeanette	*Poynette*
Toy, Juanita	*Lima, Ohio*
Tracy, Nan B.	*Kansas City, Mo.*
Trainor, Stella Elizabeth ls	*Madison*
Trapp, John Carson	*Milwaukee*
Trask, Katherine Elizabeth	*Chicago, Ill.*
Trauba, Norbert Carl ls, m	*Marathon*
Traut, Maude Anne	*Grand Rapids, Mich.*
Traut, Minnie Esther	*Edmore, Mich.*
Travers, C. Wesley	*Port Washington*
Travis, Nelle Mae	*Ellsworth*
Trebus, Alice Charlotte	*San Antonio, Tex.*
Trentlage, Otto Waterman	*Eden*
Trost, Arthur W. G. ls	*Milwaukee*

Tsai, Feng g	*Peking, China*
Tsao, Mrs. Chu Ju a	*Shansi, China*
Tseh, Chang	*Shansi, China*
Tseng, Chausson Chao-cheng ls	*Changsha, China*
Tsu, Yang Ding ls	*Shanghai, China*
Tuckerman, Gustavus ls	*St. Louis, Mo.*
Turgeson, Fletcher ls, m	*Richland Center*
Turner, Edna Gertrude	*Genoa, Ohio*
Turner, James Harvey	*Madison*
Tyler, (Miss) Jimmie Elmer ls	*Madison*
Tyler, Mattie	*Lexington, Ky.*
Ufford, Hazel Louise	*Middleboro, Mass.*
Upson, Edith Evelyn	*Madison*
Urazon, Quentin Tolentino	*Madison*
Valinske, Cora C.	*Fox Lake*
Van Adestine, Jane	*Rhinelander*
Van Allsburg, Jane E.	*Coopersville, Mich.*
Van Donselaar, Margaret	*Holland, Mich.*
VanDyke, Samuel Philip	*Kilbourn City*
Van Gent, Genevieve	*Madison*
Van Gent, Paul	*Madison*
Van Ness, Helen	*McLean, Ill.*
Van Ness, Thelma Jane	*McLean, Ill.*
Van Steenberg, Victor ls	*Milwaukee*
Vaughn, Ethel Evelyn	*Festus, Mo.*
Vaughn, George Verne	*Stevens Point*
Vaughn, Hazel	*Spearfish, S. Dak.*
Vaughn, Walter James	*Spearfish, S. Dak.*
Vega, Emma Louisa de la	*Omaha, Nebr.*
Veggeberg, Edith Jane	*Chicago, Ill.*
Vennell, Irene Beatrice	*Chicago, Ill.*
Verhulst, Reta Jessie	*Milladore*
Vickers, Lola Virginia	*Huntington, W. Va.*
Villani, James Thomas	*Youngstown, Ohio*
Vincent, Elizabeth Hamilton ls	*Evanston, Ill.*
Vogt, Matilde	*Springfield, Ill.*
Vollmer, Luella	*Alma*
Vosburg, Mary Jeanette ls	*Fort Atkinson*
Vrooman, Maude Ogilvie	*Detroit, Mich.*
Wacek, William Harold	*Madison*
Waddell, John Frank	*Evansville*
Wagner, Lillian A.	*Clyde, Ohio*
Wagner, Philip Stenseth	*Wilton*
Waigli, Eleanor Myrtle	*Milwaukee*
Waite, Fanny Maud	*Beloit*
Wakeman, Hattie Josephine ls	*Madison*
Walbridge, Bessie Mabel	*Rochester, N. Y.*
Wald, Arthur ls	*Republic, Mich.*
Waldo, Ada C.	*Rockford, Ill.*
Waldo, Jennie Edith	*Rockford, Ill.*
Walecka, Alvis	*Kewaunee*
Wales, Mary Virginia	*River Falls*
Walker, Elizabeth Frances Clarg	*Mineral Point*

Walker, Elizabeth Grimes	*Washington, D. C.*
Walker, Margaret Arthur	*Jasonville, Ind.*
Walker, Margaret R. ls	*Almond*
Walker, Mary Long	*Kansas City, Mo.*
Walker, Nina Chuin	*Washington, D. C.*
Walker, Robert Arlo	*Madison*
Wallace, Letitia Agnes	*Cleveland, Ohio*
Walquist, Lawrence Wilfred	*Rockford, Ill.*
Walrack, Myrtle Amy	*Madison*
Walraven, Irene Olin	*Kenosha*
Walsh, Bernadette Elizabeth ls	*Madison*
Walsh, Marcella Alicia	*Beloit*
Waltemath, Harry Arthur ls	*North Platte, Nebr.*
Walters, Grace	*Lafayette, Ind.*
Wamsley, Harry Charles	*Lancaster*
Wang, Shu Chien	*Urbana, Ill.*
Ward, Gilbert E. ls	*Fond du Lac*
Warner, Eugene Eliot	*Whitewater*
Warner, Stanley Carlton	*Whitewater*
Warner, William Everett ls	*Madison*
Warren, Margaret Helen	*Tomah*
Waters, Everett Elwin	*Cornell*
Watkins, Laura Ann	*Detroit, Mich.*
Watson, James Torrence ls	*Madison*
Weber, Jeannette	*Canton, Ohio*
Weiland, Louis Emil	*Westby*
Weilopp, Paul Francis	*Decatur, Ill.*
Weinhoff, John Francis	*Hales Corners*
Weinke, Ernest Albert	*Merrimac*
Weisman, Eleanore Therese	*Sun Prairie*
Wells, Ira Edwin	*Orfordville*
Welsh, Mary Rose	*Milwaukee*
Welty, James Ray	*Rockford, Ill.*
Wendt, Emma Philippa	*Milwaukee*
Wengler, Lilian Mary ls	*Madison*
Wenzel, William Herman ls	*Marshfield*
Werle, Jake Adam	*Wausau*
Werner, Victoria L. ls	*Oshkosh*
Werrell, William A. ls	*Janesville*
West, Ray Dayton	*Menominee, Mich.*
Westerfeld, Florence Mae ls	*Madison*
Whaley, Julien Charles ls	*Benton*
Wharton, Alice Rose	*Ashland*
Wheeler, Anne Belle	*Poynette*
Wheeler, Helen Anna ls	*Columbus*
Wheeler, Kathryn Edythe	*Madison*
Wheeler, Mary Louise	*Madison*
Whelan, Frances Margaret	*Kansasville*
Whitcomb, Leota Margaret	*Berlin, N. H.*
White, Aletha Alice	*Grayslake, Ill.*
White, Charles Ross	*Hillsboro*
White, Edith Dakota	*Ashland*
White, Horton Lewis	*Newark, N. Y.*

White, Margaret Malott	*Indianapolis, Ind.*
White, Paul Benjamin ls	*Madison*
Whitley, Gil Leslie	*St. Louis, Mo.*
Whitmore, Emma Belle	*Janesville*
Whitmore, Lucy Ellen	*Janesville*
Whitney, Elinor	*Kansas City, Mo.*
Whitney, Maud M.	*Elcho*
Wickenden, Gertrude Worth ls	*St. Louis, Mo.*
Wieben, Anella Marie g	*Milwaukee*
Wieda, Elmer George	*Paterson, N. J.*
Wigder, Ben	*Madison*
Wiggam, Winifred	*Emporia, Kans.*
Wilcox, Julia Helen	*Detroit, Mich.*
Wildeman, William Jackson ls	*Madison*
Wilke, Hilda S.	*Omaha, Nebr.*
Wilkins, Anna Louise	*Erie, Pa.*
Wilkins, Ethel Mae a	*Sharon*
Willesen, Myra Grace	*Duluth, Minn.*
Willey, Hazel	*Janesville*
Willey, Maud	*Mead, Nebr.*
Williams, Clarence Michael	*Madison*
Williams, Dale Paul	*Omro*
Williams, Elizabeth G.	*Milwaukee*
Williams, Guy P.	*Oconto*
Williams, Ida Caroline	*Nekoosa*
Williams, John James	*Madison*
Williams, Justin Clement	*Chicago, Ill.*
Williams, Marsia	*O'Fallon, Mo.*
Williams, Mary Beryle	*Waukesha*
Williams, May	*Milwaukee*
Williams, May Eliza	*Euclid, Ohio*
Williams, Mildred Fowler	*Terre Haute, Ind.*
Williams, Porter Ackerman ls	*Estherville, Iowa*
Williams, Rolland Franklin ls	*Edgerton*
Williams, Roscoe James	*Danvers, Ill.*
Williams, Ruby C.	*Danvers, Ill.*
Williams, Ruth Eleanor	*Racine*
Willmore, Sarah Lovina	*Maroa, Ill.*
Wilman, Evelyn Grace	*Ashland*
Wilson, Alice Anderson	*Madison*
Wilson, E. Jeanette ls	*Burlington*
Wilson, Ellamoe	*New Brighton, Pa.*
Wilson, Evangeline Huronia	*Detroit, Mich.*
Wilson, Evelyn Thorpe	*Almont, Mich.*
Wilson, Pearl Evangeline	*Belleville*
Wilson, Phyllis	*Peoria, Ill.*
Wilson, Robertine	*Indianapolis, Ind.*
Wilson, Rowena Angie	*Portland, Ind.*
Wilson, Vera Gabrielle	*Portland, Ind.*
Wimmer, Gladys Fern	*St. Louis, Mo.*
Winkler, Lois Aurelia	*Saginaw, Mich.*
Winslow, Catherine Mary	*Detroit, Mich.*
Winslow, Mary Isabel ls	*Madison*

Winter, Carrie Candee	*Madison*
Wippermann, Edgar George	*Sheboygan*
Wipperman, Myrtle Nola	*Sheboygan*
Wise, Elizabeth R.	*Duluth, Minn.*
Wittenberg, Wilber William ls	*Milwaukee*
Wittkop, Norman Lorenz	*Hartford*
Wochos, Louis Henry	*Bloomington*
Wolberg, Harvey Theodore ls	*Iola*
Wolbrandt, Mamie Agnes	*Kouts, Ind.*
Wolff, Isabel Campbell	*Clayton, Mo.*
Wolff, Marie Borchardt	*Madison*
Woltring, Marie	*Milwaukee*
Wood, George Emery g	*Madison*
Wood, Golda Brant	*Hamilton, Ill.*
Wood, Hazel A.	*Sioux City, Iowa*
Wood, Iva Justine ls	*Boaz*
Wood, Mary Ella	*Detroit, Mich.*
Wood, Mary Lydia	*Kansas City, Mo.*
Wood, William C.	*Davenport, Iowa*
Woods, Ethel Margaret	*Cleveland, Ohio*
Woodside, John Barnes	*Middlefield, Ohio*
Woodworth, R. B. Evan	*Fond du Lac*
Worley, Maude Marion	*South Bend, Ind.*
Worster, Susan Jean	*Rockford, Ill.*
Wortman, Ruth	*Akron, Ohio*
Woy, Frank Hobbins	*Madison*
Wright, Clark Gage	*Highland Park, Ill.*
Wright, Dorothy Elizabeth	*Columbus, Ohio*
Wulfing, Lucy Guye	*St. Louis, Mo.*
Wymore, Allie Alaine	*Kansas City, Mo.*
Wynne, Barbara Eujenie	*Detroit, Mich.*
Yapp, Clinton R. ls	*Madison*
Yapp, Leone Elizabeth ls	*Madison*
Yeh, Kung Huei	*Champaign, Ill.*
Yorke, Irene Marie	*Milwaukee*
Young, Adelbert ls	*Merrill*
Young, Annie Little	*Kansas City, Mo.*
Young, Donovan Abraham	*Elgin, Ill.*
Young, Edna May	*Madison*
Young, Elmer B.	*Elk Mound*
Young, Gladys I.	*Big Rapids, Mich.*
Youngquist, Seth Charles ls	*Florence*
Yu, Yiu Chieh ls	*Swatow, China*
Zeman, Helen ls	*Chicago, Ill.*
Zeman, Lauretta ls	*Chicago, Ill.*
Zenses, Jeanne	*Manitowoc*
Zentner, Irene Louise	*Milwaukee*
Zeunert, Gertrude Mary	*Cedarburg*
Ziegener, Augusta Anna	*Jersey City, N. J.*
Ziegenhagen, Fred. William	*West Allis*
Ziemann, Arthur H.	*Bloomer*
Zimmerman, Louise Clare	*Madison*
Zimmerman, Mary Lois	*Auburn, Ind.*

Zimmerman, Rudolph Charles ls	*Carrollville*
Zimmerman, Vĕlma	*Toledo, Ohio*
Zimmermann, Edith Julia	*Milwaukee*
Zimmerman, Ethel Margaret ls	*Burlington*
Zinns, Ilma	*Milwaukee*
Zlatuska, Frances Anna	*Madison*
Zorn, Lucille Marie	*Mount Pleasant, Iowa*

Music

Anderson, Richard Kvelve ls	*Madison*
Barron, Julia Alyce	*Elkhorn*
Boland, Anne Loretto	*Grand Rapids, Mich.*
Bollinger, Louise Virgilia ls	*Madison*
Breitenbach, Janet Mary mu	*Madison*
Brewer, Constance Bernice ls	*Argyle*
Britts, Ruby Evans mu	*Duluth, Minn.*
Brown, Lillian Mary ls	*Neenah*
Carey, Lulu Helen mu	*Argyle*
Chisholm, Elizabeth Victoria	*Madison*
Clark, Esther R.	*Unionville, Mo.*
Coburn, Frances Gilfillan	*West Salem*
Coleman, Helen Louise	*Akron, Ohio*
DeKelver, Carolyn	*Chippewa Falls*
Dickinson, Helen Rozilla mu	*Edgerton*
Dieruf, Gladys Irene mu	*Madison*
Dixon, Ann Jones	*Racine*
Dixon, Hazel Anne	*Brandon*
Dohr, Hattie Alma	*Kimberly*
Douglas, Laura Stewart	*Madison*
Downey, Mary Antonius mu	*Portage*
Eaton, Dorothy Louise ls	*Madison*
Edson, Dorothy Esther	*Neodesha, Kans.*
Edwards, Muriel Montana ls	*Malta, Mont.*
Foley, Daisy Marguerite	*Madison*
Gillespie, Helen Virginia	*Duquesne, Pa.*
Gilman, Bernardine Gertroy	*Evansville*
Goss, Nellie	*Grand Rapids, Mich.*
Gwin, Grace Varnell	*Chattanooga, Tenn.*
Haight, Marcellitte Gladys	*Poynette*
Hansel, Mildred	*Terre Haute, Ind.*
Hartman, Edna Gertrude, B.A.	*Madison*
Hathaway, Eva Mary	*Duluth, Minn.*
Haub, Esther Josephine	*Racine*
Hayden, Reba Claribel mu	*Madison*
Heassler, Alton Sprecher l	*Madison*
Henney, Helene A.	*Horton, Kans.*
Herrman, Harriet Ruth	*Sparta*
Hicks, Genevieve a	*Madison*
Hubbell, Genevia Viola	*Cleveland, Ohio*
Hudson, Marcia Ann	*Grand Rapids, Mich.*
Hull, Marion Mackey mu	*Milton Junction*

Jamieson, Lucy	*Poynette*
Jaquish, John Henry mu	*Madison*
Jencks, Vescey Belle	*Lodi*
Jenkins, Ruth D., B.L.	*Madison*
Johnson, Bernice Evangeline	*Morrisonville*
Jones, Grace M. mu	*Yonkers, N. Y.*
Jones, Helene Moe	*Spring Green*
Kohn, Florence Eleanor mu	*Madison*
Krampe, Leona Alice	*Baxter, Iowa*
Labisky, Avis Marian	*South Milwaukee*
Lampert, Florence May mu	*Lena, Ill.*
Lappley, Melva Harriette ls	*Madison*
Leake, Ethel Louise	*Dixon, Ill.*
Lee, Ingeborg Kathinka	*Deerfield*
Lerdahl, Marie Josephine mu	*Morrisonville*
Lewandowski, Thyra Susan mu	*Hancock*
Lewis, Mary Carmalita mu	*Pocantico Hills, N. Y.*
L'Hommedieu, Dorothy Kellogg mu	*Madison*
Lindemann, Viola Hilda	*Milwaukee*
Lindley, Nelle Caroline, B.M.	*Pecatonica, Ill.*
Lowe, Janie Louise	*Cookeville, Tenn.*
Lyons, Gladys Irene	*Brook, Ind.*
McCarthy, Margaret Mary, B.A. g	*Mellen*
McCormick, Loraine Florence	*Fennimore*
Maddock, Elizabeth Ellen	*Alton, Ill.*
Menaul, Anna Elizabeth	*Chicago, Ill.*
Mosel, Marion Tetia mu	*Sun Prairie*
Moses, Minnie Merrial	*Chicago Heights, Ill.*
O'Brien, Blanche Alexandria	*Lake Geneva*
O'Laughlin, Florence Mildred	*Fort Wayne, Ind.*
Oldridge, Erle Leslie	*Mondovi*
Olds, Deborah Fay mu	*Madison*
Orschel, Erma Lillian	*Elk Rapids, Mich.*
Peabody, Charlotte Elizabeth, B.A.	*Madison*
Petersen, Max H., M.A.	*Madison*
Sammis, Malvena Elizabeth ls, wls	*Madison*
Sherdahl, Helen Carol mu	*Montevideo, Minn.*
Singler, Margaret Mary	*Shiocton*
Sister Mary Felicita	*Madison*
Smith, Lorna Doone	*Tomah*
Sneathen, Margaret Jeannette mu	*Baraboo*
Stensland, Minnie Dorothea	*Ashland*
Stokes, Helen Hawthorne	*Kansas City, Mo.*
Sunthimer, Josephine Edna	*Shipshewana, Ind.*
Sunthimer, Marie	*Shipshewana, Ind.*
Taylor, Eva Minerva	*Lancaster*
Tillotson, Mary Elizabeth	*Waupun*
Trulson, Borghelde ls	*Stoughton*
Vradenburg, Vera Josephine mu	*Madison*
Ward, Gladys Lucinda	*Dickinson, N. Dak.*
Waters, Gladys Evelyn	*Cornell*
Weaver, Cornelia Carrie	*Madison*
Wengel, Raymond William e	*Madison*

Wilson, Irma Lucile	*Madison*
Wood, Frances Emily ls	*Brook, Ind.*
Yates, Margaret Devine mu	*Madison*
Zimmerman, Gladys Gertrude	*Fennimore*

Engineering

Abrams, Ralph Bernard e	*Milwaukee*
Aiken, Howard Hathaway e	*Madison*
Alfery, Henry Frank	*Milwaukee*
Ames, Kenneth Shirley e	*Kenosha*
Amidon, George Wallace e	*St. Louis, Mo.*
Anderson, Gerald Andrew e	*Whitehall*
Austermann, Richard Wagner e	*Madison*
Ayton, Thomas William	*Kenosha*
Baker, Loyal Southwick e	*Madison*
Bandelman, Oliver John e	*Mitchell, S. Dak.*
Barland, George Clarence e	*Eau Claire*
Barnes, Ernest M. e	*Stevens Point*
Barth, Karl Peter	*Milwaukee*
Beglinger, Richard Theodore e	*Oshkosh*
Bellew, Edgar Thomas e	*Appleton*
Benzing, Allan Sawyer	*Evanston, Ill.*
Biersach, Herbert Frank ls	*Milwaukee*
Bille, Harold William	*Marshfield*
Birkenwald, Emil S. e	*Milwaukee*
Björnson, Björn G. e	*Reykjirk, Iceland*
Blaisdell, Charles Oswald e	*Darlington*
Bodah, Joseph Edward	*Shiocton*
Bohman, Robert Bruce e	*Shorewood*
Boruszak, Melvin e	*Janesville*
Boyd, James Harrington, Jr.	*Toledo, Ohio*
Bozarth, Roger Ainslee e	*Cedar Falls, Iowa*
Branks, Joseph Orrin e	*Janesville*
Brown, Theron Adelbert	*Madison*
Bruden, Clifford Otto e	*Eau Claire*
Buckingham, Lyman Everett	*Ludington, Mich.*
Buese, Frank A. e	*Kilbourn*
Bulfer, Augustine Joseph e	*Peru, Ill.*
Butler, Jerome Roger e	*Watertown*
Cahill, Walter D. e	*Port Edwards*
Cairns, Samuel Budd, B.A. e	*Houghton, Mich.*
Caldwell, Earl Leroy e	*Indianapolis, Ind.*
Call, Rodney Warren e	*Merrill*
Campbell, Claude Wesley e	*Beloit*
Cassoday, John B. e	*Madison*
Chase, Leon Everett e	*Viroqua*
Christensen, Harold Lund	*Berlin*
Christiansen, Irving Roger	*Hager*
Christopherson, Fritz e	*Grantsburg*
Coleman, Edwin D, e	*Barron*
Colony, Martin Pratt e	*Evansville*

Connell, Walter James c	*Menomonee Falls*
Connolly, Robert e	*Racine*
Corliss, Allen L. e	*La Grange, Ill.*
Cortis, Robert Percy	*Hinsdale, Ill.*
Cox, Irving Knapp e	*Milwaukee*
Cramer, Carl Clarence	*Milton*
Crider, Harold Elmer	*La Crosse*
Davies, William Norman e	*Arden, N. Y.*
Dawson, James Thomas e	*Beloit*
Day, John G. e	*Madison*
Debbink, Claude John e	*Milwaukee*
Derzavitz, Charles e	*Milwaukee*
Desmond, John Thomas e	*Boscobel*
Devendorf, Joseph Joslin e	*Madison*
Dibley, Frederick Kemp, Jr. e	*Trenton, N. J.*
Dickson, Lester Raymond e	*Milwaukee*
Donaghey, James Bernard e	*Madison*
Douglas, Malcolm Stewart e	*Madison*
Drew, Everett Glen e	*Dubuque, Iowa*
Drews, Norman W. e	*Madison*
Dudley, Delos E. e	*Madison*
Duke, John Logan e	*Madison*
Dunn, Clark Allan e	*Stickney, S. Dak.*
Ebentier, Albert Frank c	*Sutton, N. Dak.*
Ellis, Asher R. e	*Madison*
Ellison, Frederick John e	*Fond du Lac*
Elmer, Arthur C.	*Plymouth*
Engler, Hugo Fred e	*Waukesha*
Erbach, Frederick Reitbrock e	*Athens*
Erickson, Robert e	*Cashton*
Evans, Herbert Pulse e	*Chattanooga, Tenn.*
Ewald, Sterling Donald e	*Louisville, Ky.*
Fairbank, Nelson Russell ls	*Fond du Lac*
Fanning, Willis Moore e	*Delavan*
Faull, Harry Matthews ls	*Bessemer, Ala.*
Felle, Hugo Arthur	*Reedsville*
Field, Walter Sherman e	*Chicago, Ill.*
Finkel, George Henry e	*Greenwood*
Firth, Jacob Gerald	*Madison*
Fishburn, Eugene Pearse	*Madison*
Fisher, William H.	*Minocqua*
Flaningam, Grover Harmon	*Lebanon, Ind.*
Flint, Clarence Ellis e	*Milwaukee*
Fong, Samuel Thomas e	*Canton, China*
Foote, Perry Albert e	*Erie, Pa.*
Friedrichs, Alfred	*Milwaukee*
Fritsche, Oscar Otto e	*Sioux Falls, S. D.*
Ganther, Alfred Roman c	*Oshkosh*
Gartner, Irl Cave e	*Linneus, Mo.*
Gassner, Aloysius Frederick e	*Mayville*
Gausman, William Henry e	*Verona*
Gavin, George James	*New Richmond*
Geilfuss, Marshall Adrian e	*Milwaukee*

Gerhauser, John Parrmann e	*Madison*
Gerlach, George Edward	*Baltimore, Md.*
Giddings, Leo Henry	*Barron*
Gilbert, Harry S.	*Delavan*
Gildersleeve, Tuttle Sherman e	*Childs, Pa.*
Glenn, Truman Greve e	*Chilton*
Golley, Frank Benjamin e	*Milwaukee*
Gorrow, Mitchell Guy e	*Appleton*
Green, Sherman Baldwin e	*Jerome, Idaho*
Greenman, Ralph N. e	*Aberdeen, S. D.*
Grelle, Edward Christopher	*Prairie du Chien*
Gross, George Harrison e	*York, Pa.*
Gude, Hans Erik Anker e	*Kristiana, Norway*
Guffey, Francis Amsden e	*Clyde, Ohio*
Gustin, Glen Hudson	*Wautoma*
Guttke, Walter Otto e	*Berwyn, Ill.*
Haddorff, Irving R. e	*Rockford, Ill.*
Hamblen, Jennings Bryan	*Franklin, Ind.*
Hance, Willard Bell e	*Freeport, Ill.*
Hanks, William Vilas e	*Madison*
Hanley, Edward Vincent e	*Milwaukee*
Hanson, Earl Parker e	*Milwaukee*
Hanson, Paul Edward e	*Mondovi*
Hanson, Ray Frederick	*Milwaukee*
Hart, Lyman Herbert e	*Madison*
Harvey, Lyle Clifford e	*Oconto*
Hendricksen, Knut	*Bergen, Norway*
Hensey, Earl William e	*Fort Atkinson*
Hering, Reuben Eugene e	*Cross Plains*
Herrick, Neal Dow e	*Ipswich, S. Dak.*
Himmelstein, Carl Joseph e	*Milwaukee*
Hinkley, Elroy Hall	*Milton Junction*
Hirshberg, Maurice Arthur e	*Milwaukee*
Hoe, George Marsden e	*Milwaukee*
Hoffman, LaVerne Milton e	*Wilton*
Howes, Merwin H., Jr. e	*South Milwaukee*
Howland, Gardiner G. e	*Butte, Mont.*
Hrubecky, George Francis e	*Neenah*
Hubbard, Honore Clinton e	*Evansville*
Hudson, Alfred e	*San Nicolas, Argentina, S. A.*
Huebner, Bernard William e	*Madison*
Huegel, Arthur John e	*Milwaukee*
Hume, Lloyd Edward e	*Endeavor*
Hunsader, Lawrence Joseph e	*Algoma*
Hyer, Frank Perry e	*Whitewater*
Jardine, Zac e	*Madison*
Jewell, Floyd B. e	*New Lisbon*
Johnson, Crawford	*St. Louis, Mo.*
Johnson, Irving Burdett e	*Madison*
Johnson, James, Jr. e	*Wauwatosa*
Johnson, James Warren e	*Rye, Fla.*
Johnson, Norman Lincoln e	*New Ulm, Minn.*

Joys, John Eastman c	*Milwaukee*
Kavanaugh, Paul Edward e	*Antigo*
Keeler, Robert Stanley	*Valparaiso, Ind.*
Kellett, William Richard e	*Neenah*
Kerman, Harold Henry e	*Madison*
Kersten, Aurin William e	*Hartford*
Kessler, Lewis H. e	*Columbia City, Ind.*
King, Kenneth Jacob e	*Superior*
Kirst, Leland Avery e	*Dodgeville*
Klement, Elmore Fred e	*Fort Atkinson*
Knecht, Otto H. e	*Chicago, Ill.*
Koenecke, Paul M.	*Reedsburg*
Koerner, Edwin Otto	*Sheboygan*
Krause, Gustavus Theodore	*Colfax*
Krenz, Edward Arthur	*Oshkosh*
Krez, Frederick William	*Sheboygan*
Krotz, Alva Shirley e	*Janesville*
Krueger, Raymond Arthur e	*Merrill*
Kuehlthau, Wareham Adam e	*West Bend*
Kurtz, Maynard Lynn	*Fort Atkinson*
Kurtz, Paul Henry	*Two Rivers*
Kwong, Frederick Gumming	*Chicago, Ill.*
Larson, Carl F. e	*Florence*
Larson, Noble Guy e	*Barron*
Latimer, George Theodore e	*Chester, S. C.*
Leaf, Arthur Walfrid e	*Marinette*
Ledin, Theodore Axel e	*Kenosha*
Lenck, Arthur Roy	*Milwaukee*
Leonard, John Burton e	*Oshkosh*
Lewis, Hugh L. e	*Antigo*
Lillis, Norman Kenneth	*Rockford, Ill.*
Lingsangan, Leon Villajuar e	*Pontabangan, P. I.*
Little, Edwin George	*Zanesville, Ohio*
Livingston, Penn P. e	*Elk Mound*
Lonergan, Roy Haber e	*Milwaukee*
Longenecker, Ernst A. e	*Neillsville*
Lone, Merrill DeWitt	*Emerald*
Lowe, George Christie	*Beardstown, Ill.*
Lu, Chia-Chun	*Peking, China*
Luedtke, Elroy Robert e	*Reedsville*
Lunda, Ernest Milo e	*Madison*
McKaig, Willard Hulick	*Long Branch, N. J.*
Mabry, Armon Ercell e	*Roanoke Va.*
Mackie, James Everett c	*Green Bay*
Maiers, Joseph Adam e	*Madison*
Manthey, Frank Richard e	*Antigo*
Mariategui, Benjamin e	*Lima, Peru, S. A.*
Marks, Israel Edward e	*Kenosha*
Marrero, Isidro, Jr. e	*San Juan, Porto Rico*
Matheson, Donald McGegor c	*Elkhorn*
Maurer, Harold John e	*Milwaukee*
Merriam, Allison William c	*Madison*
Merrill, Robert Allan e	*Sparta*

Merriman, Charles Royce e	*Beloit*
Meyrick, Gordon Sumner e	*Thiensville*
Michael, Constant Hadji e	*Neenah*
Millard, Albert Dean e	*New London*
Miller, Benjamin Lawrie	*West Allis*
Miller, Thomas Foster e	*Green Bay*
Minshall, Neal Edward e	*Viroqua*
Mitchell, Norman McLeod e	*Tomahawk*
Moehlman, William F. e	*Madison*
Monroe, Howard James e	*Baraboo*
Moran, James Edward	*Escanaba, Mich.*
Morey, Howard Elmer e	*Plainfield*
Morris, Robert Bracken	*Frankfort, Ind.*
Muegge, Oswald John e	*Walsh, Ill.*
Mueller, Carl Ernst e	*Milwaukee*
Nalbach, John Roesch e	*Moweaqua, Ill.*
Nason, Charles Seymour e	*Kenilworth, Ill.*
Neumeister, Carl L. e	*Sheboygan*
Newing, William Bowyer e	*Appleton*
Niles, Thomas McMaster e	*Oak Park, Ill.*
Nogueira, Frederico Pupo e	*Campinas, Brazil*
Nordstedt, Einar August e	*Milwaukee*
Olson, Arthur Oliver	*Madison*
Olson, Charles Alfred	*Madison*
Palechek, Walter Richard e	*Chaseburg*
Park, Maurice Sanborn	*Madison*
Paulus, Raymond Lawrence e	*Milwaukee*
Pekofsky, Philip e	*Milwaukee*
Pesch, Anthony William g	*West Bend*
Pfeiffer, Milton Julius e	*Plymouth*
Phillips, Harry A. e	*Evanston, Ill.*
Phillips, Rufus Seely e	*Madison*
Piette, Hubert Julius	*Appleton*
Pope, Frederick George	*Ableman*
Porth, Walter Henry e	*Milwaukee*
Potts, John Arlington e	*Madison*
Poull, Leroy Michael e	*West Bend*
Price, Elmer E. e	*McComb, Miss.*
Price, James Robertson e	*Milwaukee*
Purdy, Corydon Phillips e	*Monroe, N. Y.*
Purnell, George William e	*Madison*
Quinn, Raymond John e	*Madison*
Rabbitt, Ora Clyde e	*Viroqua*
Rabuck, Arthur Jacob e	*Reedsburg*
Radke, Alfred Herbert e	*Madison*
Radley, Harmon Monroe e	*Wild Rose*
Rasmussen, Clarence Fisher	*Park Falls*
Rau, Irving Julius e	*North Milwaukee*
Reinke, Oscar Alfred e	*Aniwa*
Reuter, William Robert e	*Milwaukee*
Rice, Wallace H. e	*Kansas City, Mo.*
Richter, Charles F. R. e	*Milwaukee*
Riera, Juan Bernardo e	*Argentine, S. A.*

Riggs, Burd Joy e	*Crandon*
Riley, Timothy Harvey	*Madison*
Robertson, Martin Rindlaub e	*Platteville*
Rohlfing, Anthony Ferdinand e	*Milwaukee*
Rolland, Sverre Lind e	*Bergen, Norway*
Rolsted, Simon Theodore e	*Barron*
Rove, Olaf N. e	*Milwaukee*
Ruecker, Ernest Chester	*Marquette, Mich.*
Russell, Cecil Ruppell e	*Christchurch, N. Z.*
Ryan, George Parker e	*Madison*
Ryan, Joseph Edward e	*Janesville*
Saha, Aatto Paivio	*Bjoerneborg, Finland*
Sammond, Robert Saul e	*Madison*
Sargis, Samson George e	*Madison*
Scadden, Francis Herbert e	*Madison*
Schaub, Reginald R. e	*Kewaskum*
Schmidt, Carlton Leonard	*Avoca*
Schmidt, Louis A., Jr. e	*Milwaukee*
Schneider, George Russell e	*East Liverpool, Ohio*
Schoenike, Elmer Louis	*Watertown*
Scholes, Robert Henry e	*Madison*
Schostak, Abraham William e	*Milwaukee*
Schubring, George Frederick e	*South Milwaukee*
Schultheis, Herbert John e	*Milwaukee*
Schultz, Roy Louis e	*Lomira*
Schwarz, Edwin	*Belvidere, Ill.*
Shapiro. Leo Henry e	*Milwaukee*
Shaw, Ralph e	*La Crosse*
Sherman, Murray Wade	*Winnebago*
Shockey, Charles Francis e	*Green Bay*
Sickert, Otto Leonard e	*Milwaukee*
Silver, Charles Eugene e	*Milwaukee*
Silverstone, Leon e	*Milwaukee*
Simons, Fred Adams e	*Newtonville, Mass.*
Slichter, Donald Charles e	*Madison*
Soll, Rolland Hugo e	*Milwaukee*
Spetz, Ralph Ferdinand e	*Milwaukee*
Spielman, Harold J. e	*Park Ridge, Ill.*
Steinmetz, George P. e	*La Farge*
Stewart, Donald L.	*Moline, Ill.*
Stewart, Frederick Charles e	*Madison*
Stith, Roy Lee e	*Terry, Mont.*
Strothman, Edmund Pennel e	*Milwaukee*
Stuart, James Reeve e	*Milwaukee*
Studer, Leo Martin	*Lake Linden, Mich.*
Stumpf, Walter P. e	*Madison*
Sullivan, John Frederick, Jr. e	*Hurley*
Taft, Merrill Edward e	*Whitewater*
Thiel, Walter Conrad e	*Schleisingerville*
Thompson, Berthel Martin ls	*Superior*
Tietjen, William Leiner	*North Milwaukee*
Tomlinson, George Herman ls	*Eau Claire*
Traub, Walter George e	*Milwaukee*

Treloar, Thomas Arthur	*Marquette, Mich.*
Tschudy, Lionel Carl e	*Monroe*
Tucker, Albert Belman e	*Wilmette, Ill.*
Tuttle, Harold S.	*Balsam Lake*
Uehling, Edwin Albrecht e	*Lowell*
Valdivia, Peter Ramon e	*Guadalajara, Jal, Mex.*
Van Doren, Kenneth Reed e	*Birnamwood*
Varney, Forrest Franklin e	*Greenwood*
Vilberg, Clarence Benjamin e	*Mount Horeb*
Wagner, Elmer Karl	*Fond du Lac*
Wasson, Clinton Irish e	*Muncie, Ind.*
Watters, Richard Gates	*Galesburg, Ill.*
Webster, Francis Lyle e	*Madison*
Webster, George W.	*Milwaukee*
Weckworth, Herbert Frederick e	*South Kaukauna*
Wegg, Robert Temple	*Monroe*
Weiss, Harold Charles e	*Rensselaer, Ind.*
Wessely, Edward Arthur e	*Kewaunee*
Wheaton, Herbert Hudson e	*La Crosse*
Wheeler, Charles Eugene, Jr. e	*Beloit*
Wheeler, John Ambrose	*Madison*
White, Emil N. e	*Racine*
Whitfield, Robert Hamilton ls	*Oak Park, Ill.*
Wicker, Kenneth Russel e	*Madison*
Wigglesworth, James Donovan	*Wilmette, Ill.*
Williams, Clement Herman e	*Elkhart Lake*
Willson, Clarence Ardry	*Madison*
Wolfe, Frank Tisch e	*Kenosha*
Wong, Joe Him e	*Madison*
Wright, Fred A.	*Janesville*
Wu, Wei Chou e	*Shensi, China*
Youngberg, Adolf Frederick e	*La Crosse*
Yoxall, Peter	*Ansonia, Conn.*
Zander, Arnold Scheuer e	*Two Rivers*
Zander, Karl Levenhagen e	*Manitowoc*
Zapfe, Emil Julius	*Madison*
Zelonky, Benjamin e	*Milwaukee*
Zervas, Walter Otto e	*Milwaukee*
Zimmermann, Gerhard Edmund	*Sheboygan*
Zoerb, Howard McKinley e	*Two Rivers*
Zuelow, Felix William e	*Milwaukee*

Agriculture

Ahrens, Harvey Gerald a	*Two Rivers*
Alexander, Nelle a	*Paris, Mo.*
Allen, Adah Iola	*Fulton, Ill.*
Allen, Cromwell Morton	*Morganfield, Ky.*
Amory, Thomas Chace a	*Walpole, N. H.*
Amundson, Minnie Dorothy	*Black River Falls*
Anderson, Hattie Estella	*Fish Creek*
Anderson, Ingred	*Oconomowoc*

Arnett, Madeline	*Lewistown, Ill.*
Baldwin, Mary Florence	*Grand Rapids, Mich.*
Baldwin, Orrel Lennant	*Evansville*
Becker, Ella	*Cedarburg*
Bell, Elizabeth	*Independence, Mo.*
Biehn, Gertrude Emily	*Milwaukee*
Bixby, Beatrice Olivia	*Kalamazoo, Mich.*
Bliesner, Cora Augusta	*Spring Valley*
Boehland, Robert Remington	*Rockford, Ill.*
Boldt, Anna Louise	*Davenport, Iowa*
Boller, Irene Mae	*Chicago, Ill.*
Bollinger, John Romeo a	*Cochrane*
Bond, Eugene Howard a	*Milton*
Braucht, Ruth Ann	*Joy, Ill.*
Brown, Maynard Wilson a	*Great Falls, Mont.*
Bullock, Alice Fairfax a	*Madison*
Burgos, Carlos Xercy a	*Manila, P. I.*
Butler, Richard a	*Horicon*
Byrne, Basil Joseph a	*Hazel Green*
Byrne, Charles David a	*Oregon*
Byrns, Elizabeth Irene a	*Madison*
Byrns, Elmer Dennis a	*Madison*
Capel, James Barzella a	*Milwaukee*
Carlin, Fisk Weld	*Palmyra*
Cheetham, Helen Cowan a	*Milwaukee*
Christee, Martha Elizabeth	*Superior*
Churchill, Helen Emma	*Minneapolis, Minn.*
Clark, Farnham a	*Menomonie*
Clausen, Arthur Dwight	*DeKalb, Ill.*
Cleasby, Elwood William a	*Eleva*
Cook, Anna May	*Ruston, La.*
Cooper, Hattie Catherine	*Fond du Lac*
Corbin, Florence May a	*Madison*
Coulson, Ruth Antoinette a	*St. Louis, Mo.*
Coyle, Margaret Munson a	*Ridgewood, N. J.*
Crane, Marion Louise a	*Williams Bay*
Cravens, Clarence C.	*Gleason, Tenn.*
Crossby, George Sumner	*Hampton, Va.*
Curtis, Lester Leroy	*Irvington, Ala.*
Curtis, Milton Ulyssis	*Irvington, Ala.*
Cushing, Edward Benjamin	*Houston, Tex.*
Cutland, Marguerite Ione	*Wilton*
Dahl, Stanley Gustof a	*Chicago, Ill.*
Daniel, Helen Lucile	*Beggs, La.*
Detienne, Florence Eleanor	*Milwaukee*
DeVilbiss, Laurinda May	*Fort Wayne, Ind.*
DeVries, Arnold John a	*South Madison*
Dietz, Dorothy Louise	*Chicago, Ill.*
Dodge, Ray	*Sheller, Ill.*
Douglas, Hetta Stewart	*Madison*
Edwards, Marion	*Fort Atkinson*
Egdahl, Rose Sarah	*Schofield*
Ellis, Crawford Raw a	*Endeavor*

Elmslie, Wallace Parker a	*Milwaukee*
Emmert, Hazel Margaret	*Carter, S. Dak.*
Engelmann, Victor Emil a	*What Cheer, Iowa*
English, Donald John a	*Wyocena*
Enriquez, Pedro Monzou	*Bataan, P. I.*
Farrar, Lucile	*Ironton, Mo.*
Fauerbach, Edith Gretchen a	*Madison*
Field, Remey Adelbert	*Leadmine*
Flanigan, Gertrude Mae	*Amery*
Forrest, Nellie	*Poynette*
Gaensling, Meta Emily	*Milwaukee*
Genung, Belle	*New Albany, Ind.*
Gernert, Hulda Marie Sophie	*Louisville, Ky.*
Gerritt, Harriet Ina	*Waukesha*
Gmür, Carl Wilhelm	*Elgin, Ill.*
Goessling, Hattie Bernadine	*Plymouth*
Graham, Gertrude P.	*Chicago, Ill.*
Grams, Carrie Emily a	*Watertown*
Gregg, Jennie Emily a	*Madison*
Hansen, Bertha Caroline	*Chicago, Ill.*
Hare, Arthur Gordon	*Chicago, Ill.*
Heisig, Jennie Olive a	*Madison*
Hembre, Helmer John	*Greenwood*
Henderson, Myrtle	*Chicago, Ill.*
Hennecke, Elsbeth	*Milwaukee*
Herreid, Berdelle a	*Blair*
Herrod, Lillian Grace	*Webb City, Mo.*
Hickey, Pauline G. a	*Madison*
Hill, John Orenzo	*Rockton*
Honaas, Alf a	*Elk Mound*
Horne, Charles Alfred	*Stevens Point*
Hsu, Chen-Chou a	*Hong Chow, China*
Hubin, Walter Hugo	*Shell Lake*
Huffman, Helen Fay a	*Richland Center*
Hughes, Idrys Oralend a	*Platteville*
Ihlenfeldt, Roy Stanley	*Wilmot*
Ingebritsen, Carroll Raymond	*Madison*
Iverson, Clarence Fred a	*Kenosha*
Jackson, Violet Josephine	*Chicago, Ill.*
Jacobi, John Julius	*Mondovi*
Jacobson, Alvin Myron a	*Richland Center*
Jacobson, James Rasmus	*L'Anse, Mich.*
Jaeger, Walter Carl William e	*Cleveland*
Jansen, Katherine	*Oakfield*
Jaquith, Clifford LaRoy a	*Green Lake*
Johnson, Gustavus Emil a	*Boyceville*
Jones, Florence Louise	*Independence, Mo.*
Kaasa, Leonard Jerome a	*Merrill*
Keenan, Matilda Elizabeth a	*Madison*
Keller, Sophia Dorothea	*Milwaukee*
Kellum, Anna Laura	*Camby, Ind.*
Kernan, Emily	*Fond du Lac*
Kies, Guerdon Francis	*Platteville*

Kindle, William Hohman	*Washington, D. C.*
King, Jane	*New Albany, Ind.*
Klare, Richard Henry a	*Madison*
Kleinheinz, Frank Alexander a	*Madison*
Klenert, Florence Suzanne a	*Portage*
Kletzien, Seymour W. F.	*New Holstein*
Klute, Mildred Elizabeth	*Richmond, Ind.*
Knutson, Thea Bertina	*Wautoma*
Kozelka, Adolph William a	*Mishicot*
Kozelka, Frank Ludwig a	*Mishicot*
Krebs, Maybell Cornish	*Fort Atkinson*
Kroncke, Dorothea a	*Madison*
Kuckuk, Harold M. a	*Wausau*
Kuehn, Anita E. a	*Milwaukee*
Kuehn, Edwin F. W. a	*Burnett*
Kuo, Tsung-Fen	*Shansi, China*
Larson, Elsie Frances	*River Forest, Ill.*
Lennon, Ethel Mary	*Sioux City, Iowa*
Lincoln, Rose Minnie	*Marshalltown, Iowa*
Lindsay, Marie Carlotta	*Crystal Falls, Mich.*
Lippitt, Minnie Henderson a	*San Juan, Porto Rico*
List, Frank, Jr.	*Dayton, Ohio*
Lotz, James Aaron a	*Cadott*
McClaine, Marcus	*Hayward*
McCollow, Mary Margaret	*Hartford*
McConnell, Kenneth a	*Sparta*
McNair, Grace Jeanette	*Caledonia, Ill.*
Maag, Viola Anna a	*Milwaukee*
Madden, Geneve	*Horton, Kans.*
Magnant, George DeLeon	*Madison*
Mahorney, Florence a	*Madison*
Mallow, Lewis Campbell a	*Madison*
Maloney, Frances Desales	*Grand Rapids, Mich.*
Marlewski, Sylvia Vera	*Milwaukee*
Mears, Helen Viola	*Pepin*
Meerhoff, Agnes Elizabeth	*Richmond, Ind.*
Meerhoff, Anna Louise	*Richmond, Ind.*
Mereness, Alice Hazel	*Madison*
Meyers, Helen Bertha	*St. Louis, Mo.*
Michaelson, Nina Josephine	*Darlington*
Miller, Aaron Vernon	*Richland Center*
Miller, Lola Curtis	*Fort Wayne, Ind.*
Mills, Rhoda Mary	*Wauwatosa*
Morey, Leda Ethel	*Plainfield*
Morse, Marian Sarah a	*Wild Rose*
Munkwitz, Richard Charles a	*Edgar*
Neuman, Marie Caroline	*Grand Rapids, Mich.*
Niemann, Charlotte Paula	*Racine*
Niesen, Alfred Joseph	*Wauwatosa*
O'Connor, Annette Mary a	*Hartford*
Oertel, Everett a	*Prairie du Sac*
Old, William a	*Madison*
Opgenorth, Louis Theodore a	*Kewaskum*

Oppenheimer, Bernece	*Moline, Ill.*
Pabst, Rudolf a	*Oconomowoc*
Palm, Isabel Reed a	*Madison*
Pan, Chia Yuan	*Chingtu, China*
Parker, Emily	*Decatur, Ill.*
Parkinson, Caryl McCoy a	*Madison*
Paxton, Joseph Francis a	*Madison*
Pederson, Carl Severin a	*Tunnel City*
Pestalozzi, Carla	*Milwaukee*
Pfeifer, Ruth Adaline a	*Columbus, Kans.*
Platz, Anna Marie	*Cincinnati, Ohio*
Powell, Hugh Elliott	*Rockford, Ill.*
Price, Ferdinand Theodore a	*Amherst*
Rabuck, Francis Hubert a	*Wonewoc*
Ralph, Robert Osborne	*Montfort*
Reed, Delpha A.	*Cleveland, Ohio*
Reinhold, John Gunther a	*Stanley*
Reiss, Ruth Bollinger a	*Terre Haute, Ind.*
Rewey, Oliver Wendell a	*Madison*
Reynolds, Mildred Mae a	*Oconto*
Ring, Susane Elizabeth	*Franklin, Tenn.*
Robinson, Carl Louis	*Laona*
Rockwell, Leslie Howard a	*Madison*
Rodolfo, Agustin a	*San Antonio, P. I.*
Rogers, Hazel E.	*Michigan City, Ind.*
Rohlinger, Adam Frederick	*Oxford*
Rooney, Dympua Margaret	*Superior*
Rouiller, John James	*Manitowoc*
Royer, Kenneth Metz a	*Elgin, Ill.*
Rude, Dora M. a	*Dodgeville*
Rumage, Freeman William a	*Brodhead*
Rüsnig, Blanche Marie	*Madison*
Sachs, Clara	*Louisville, Ky.*
Schacht, Mildred Mable	*Racine*
Schilling, George Silas	*Madison*
Schimmel, Harold W.	*Milwaukee*
Schmolze, Dorothy	*Chicago, Ill.*
Shepherd, Evah Muree	*Sullivan, Ind.*
Shepherd, Olive May	*Elgin, Ill.*
Sherwood, Margaret	*Milwaukee*
Skarda, Julia Anna	*Green Bay*
Skolas, Marcus ls	*Madison*
Slaght, Elizabeth Strahan	*Grand Rapids, Mich.*
Smit, Benjamin Johannes g	*Reitz, South Africa*
Smith, Urban Ulysses	*Fennimore*
Snyder, Annabel	*Lancaster*
Synder, Florence Luella	*Kitchener, Ont., Canada*
Spear, Byron Hoyt a	*Pardeeville*
Splitgerber, Albert Henry a	*Waterloo*
Steadman, Ralph A. a	*Moorcroft, N. Y.*
Stevens, Jessie Marian a	*Grand Rapids, Mich.*
Stewart, John Eldon Lee a	*West Allis*
Strahan, Hazel Blair	*Harrisonville, Mo.*

Stream, John Joseph a	*Chicago, Ill.*
Strickler, Merrie Casteel	*Washington, D. C.*
Szeliski, Francis Paul von a	*Madison*
Taylor, Ardys Marie a	*Madison*
Ternes, Albert Marcellus a	*Ridgeway*
Thomas, Robert Cole a	*Oak Park, Ill.*
Thompson, Frances Louise a	*Madison*
Thuering, Viola Louise a	*Milwaukee*
Tollefson, John McKinley a	*Madison*
Trowbridge, Mildred	*St. Louis, Mo.*
Trumbower, Irvin Royal a	*Shell Lake*
Tucker, Birdene I. a	*Lodi*
Tucker, Evelyn Edmunds	*Lexington, Va.*
Tuff, Margaret	*Chicago, Ill.*
Tyler, Vera Vivian	*Mellen*
Valine, Godfrey Wilhelm a	*Pepin*
Vanderhoof, Harold Alexandria	*Knapp*
Van Steenberg, Ada	*Lansing, Ill.*
Vernon, Pearl Lee	*Homer, Ill.*
Vincent, Agnes Willetta	*Milton*
Wachlin, Frank Emil	*Wonewoc*
Watson, Eldon Levings a	*Poynette*
Wedekind, Ruth	*Louisville, Ky.*
Wells, William Alexander a	*River Falls*
Weslow, Joseph Alexander	*Green Bay*
de Wet, Johannes Daniel a	*Capetown, South Africa*
White, Helen Virginia a	*Madison*
Whitney, Inez Jane	*Stevens Point*
Wieland, Erwin Otto	*Madison*
Williams, Margaret E. a	*Madison*
Wilson, Jessie	*Burlington*
Winn, Marian Grace	*Rockford, Ill.*
Wipperman, Arno Arthur a	*Cleveland*
Wohlers, Edna Caroline	*Rock Rapids, Iowa*
Woods, Elizabeth Lisle a	*Louisville, Ky.*
Yonker, Celestia	*River Forest, Ill.*
Zaffke, Ben F.	*Madison*

Law

Aas, Alexander, M.A.	*Valley City, N. Dak.*
Ahlstrom, Roy Victor l	*La Crosse*
Armstrong, Frank T.	*Sedalia, Mo.*
Ary, Lester Clyde, B.A.	*Guttenberg, Iowa*
Baird, Austin Joseph, B.A. l	*Waukesha*
Barr, Harry Andrew, B.A.	*Aledo, Ill.*
Barr, Wallace Andre l	*Milwaukee*
Beckwith, David Van Waller l	*Madison*
Beyer, Adelbert John, M.A. g	*Milwaukee*
Boardman, Newell Stephen, B.A. l	*New Richmond*
Bruner, James Donald	*Rock Island, Ill.*
Bubbers, William	*Stratford*

Burlingame, Leroy James, B.A.	*Madison*
Cave, James Lawrence	*Oxford Junction, Iowa*
Crossland, Clarence Jefferson, B.A.	*Zanesville, Ohio*
Dagger, Golden Norman, M.A.	*Urbana, Ohio*
Daley, Carl Harry l	*Superior*
Darling, Lorenzo Lyman ls, l	*Manawa*
Dean, Harry C.	*Madison*
Doddridge, Delmar W.	*Milton, Ind.*
Doll, William DeBerge, B.A.	*Milwaukee*
Duncan, Francis Willard	*Green Bay*
Eaton, Ralph Melvin	*Des Moines, Iowa*
Egan, John Marion	*Highland*
Ells, Robert Borden l	*Rockford, Ill.*
Engelhard, Aloysius John l	*La Crosse*
Fitzgibbons, James Maurice l	*Monroe*
Foley, Leon Francis	*Wisconsin Rapids*
Fortune, William Peter, Jr., B.A. l	*Springfield, Ill.*
Fox, Harry S., B.A. l	*Janesville*
Fritchie, Gus Alexander	*Slidell, La.*
Gilbertson, Victor Gilbert	*Eau Claire*
Goodman, Leo John	*Kendall*
Grady, Emory Lester, M.C.S. l	*Watertown*
Grant, Harry Arnold	*Sioux Falls, S. Dak.*
Gray, Miles	*Petersburg, Ill.*
Greco, Charles l	*Madison*
Hansen, Lambert A. l	*Cashton*
Hanson, Harold	*Howard, S. Dak.*
Hanson, Harold Eugene l	*Madison*
Hyzer, Leland l	*Janesville*
Immell, Ralph Maxwell l	*Madison*
Jenks, Walter Thomas l	*Platteville*
Johnson, Guy Arthur, B.A.	*Suring*
Johnson, William Nash	*New Orleans, La.*
Jones, John Edward Emmett	*Algoma*
Kearns, Edward P., B.A. l	*Madison*
Killeen, Thomas Edward, Jr.	*St. Louis, Mo.*
King, Marvin Stephen,, B.A. l	*Madison*
Kinney, Clarence Elmer, B.A.	*Superior*
Kirkby, Walter Allan	*Jackson, Mich.*
Knudson, Clarence	*Eau Claire*
Krebs, George John l	*Ft. Atkinson*
Kuehl, Frank William, B.A. l	*Fountain City*
Lackey, Vaden Major	*Nashville, Tenn.*
La Follette, Philip Fox, B.A. l	*Madison*
Lathrop, William, B.A. l	*Madison*
Layton, Leon Robbins	*West Union, Iowa*
Lee, Stephen Dill	*Greenwood, S. C.*
Lehner, Otto P. Ph.B.	*Madison*
Lowry, Howard James, Ph.B. l	*Colfax*
Luecker, Elmer William ls	*Brillion*
McCleary, Glenn A.	*Iron Mountain, Mich.*
McCullen, Richard Edward	*Clayton, Mo.*
Macomber, Stephen Decator l	*New Lisbon*

Malzow, Reinhold	*Beaver Dam*
Monk, Floyd J.	*Neillsville*
Mullen, Clement Francis	*Waterloo, Iowa*
Nesbitt, John Leonard 1	*Oxford*
O'Laughlin, John Richard	*Madison*
Omernik, Edward Edmond	*Webster*
Palmer, John James Edgerton	*Ponchatoula, La.*
Paul, Emery Marvin 1	*Princeton*
Paulsen, Paul Hillward 1	*Stevens Point*
Perkins, Dosite Hugh	*Sulphur, La.*
Perry, Donald Moore	*Black River Falls*
Porter, Emery John, B.A. 1	*Mukwonago*
Potter, Ellis David, B.A. 1	*Madison*
Powers, Patrick Gerald, Ph.B. 1	*Madison*
Reynolds, Thomas A. 1	*Madison*
Rinehard, Clarence Ellsworth, B.A.	*Shawano*
Roggy, Alvin Reuben, B.A.	*Princeton, Ill.*
Rohloff, Alfred Edward	*Shawano*
Rohr, Charles Davis, B.A. 1	*Burlington*
Rosenblum, Harry Maurice	*Terre Haute, Ind.*
Runge, Herman Carl ls, 1	*Sheboygan*
Scanlon, Omer Firman	*Oxford, Iowa*
Scholte, Robert P., B.A.	*Pella, Iowa*
Schowengerdt, Maury Neal	*Warrenton, Mo.*
Schultz, Emil Otto	*La Crosse*
Sharp, Fern Eugene B.A., g, 1	*Edgewood, Iowa*
Shaw, Victor Harry	*Fairmont, W. Va.*
Smalley, Gwynette Ellsworth, B.A. 1	*Cuba City*
Smith, Allen, B.A.	*Muscatine, Iowa*
Smith, Herbert Herald ls. 1	*Milwaukee*
Speidel, Clement Miller, B.A.	*Cleveland, Ohio*
Spengler, Silas Llewellyn, B.A.	*Menasha*
Spohn, George Daniel, B.A. 1	*Janesville*
Staker, Alden John	*Portsmouth, Ohio*
Stevens, Walter Judson	*Champaign, Ill.*
Strassburger, Albert Emmanuel, B.A. 1	*Oshkosh*
Swale, Albert Roy	*West Union, Iowa*
Treichel, Carl Eugene	*Milwaukee*
Tyrrell, Richard Hanlon 1	*Lake Geneva*
Van Pelt, Clayton Forrest 1	*Fond du Lac*
Waller, Theodore Adolph	*Madison*
Whelan, Allen 1	*Mondovi*
Wiley, Robert Leroy 1	*Chippewa Falls*
Wolff, Herman William 1	*Lake Mills*
Young, Elden Russell	*Bremen, Ohio*

Library

Ashmore, Ruba Marian	*Fennimore*
Bechtalt, Helen Troy, B.A.	*Reedsburg*
Burull, Alma Louise	*Stoughton*
Edgington, Mary Llewella	*Livingston*
Fritsch, Mabelle Louise	*Platteville*
Grant, Xina May, B.Pd.	*Comstock*
Greene, Bertha Hobart Bacon, B.A.	*Menominee, Mich.*
Hendrickson, Mabel Alma	*Dodgeville*
Klokner, Elsa Irma	*Wauwatosa*
Lee, Jenny	*Hudson*
Lehr, Ellen	*Shullsburg*
MacQueen, May Pamelia	*Lena*
Marcy, Lucile, B.A.	*Chippewa Falls*
Phillips, Genevieve	*Madison*
Pope, Amelia E.	*Waupaca*
Ross, Louise Henrietta, B.A.	*Kenosha*
Rowe, Blanche Estelle	*Dodgeville*
Simmons, Hortense	*Belmont*
Swancutt, Ida Estelle, B.A.	*Sioux Falls, S. Dak.*
Welsh, Laura Jeannette	*Loyal*
Wieslander, Lillian H.	*Ashland*
Young, Ethel Almira, B.A.	*Fox Lake*

STATISTICAL SUMMARIES

GRADUATES

		1921
Number of first degrees granted, 1854-1921.....	16,273	1,065
Present Courses:		
Courses leading to the degree of Bachelor of Arts, 1904-1921.....	5,974	590
(Included in the above is the Course in Commerce, 1904-1921, 895; 1921, 159; and the Course in Journalism, 1914-1921, 123; 1921, 31.)		
Course for Normal School Graduates, Ph.B., 1898-1921	633	40
General Course, Ph.B., 1917-1921.....	40	16
Chemistry Course, B.S., 1909-1921.....	186	20
Physical Education Course, B.S., 1921.....	8	7
Manual Arts Course, B.S., 1921.....	2	2
Medical Science Course, B.S., 1909-1921....	318	43
Pharmacy Course, B.S., 1895-1921.....	67	3
Pharmacy Course, Ph.G., 1884-1921.....	388	19
Bachelor of Music, B.M., 1917-1921.....	30	9
Course for Supervisors of Music, 1910-1921.	127*	22*
Course in Agriculture, B.S., 1878-1921....	994	108
Home Economics Course, B.S., 1909-1921..	415	52
Course in Agriculture (Middle Course), Ag.G., 1910-1921	178*	19*
Course in Home Economics (Two Yr. Course), Ag.G., 1921.....	7*	5*
Law Course, LL.B., 1869-1921.....	2,135	35
Civil Engineering Course, B.S., 1876-1921..	744	25
Mechanical Engineering Course, B.S., 1876-1921	556	23
Electrical Engineering Course, B.S., 1892-1921	688	32
Chemical Engineering Course, B.S., 1903-1921	174	27
Mining Engineering Course, B.S., 1910-1921	59	14
Courses discontinued:		
Ancient Classical Course, B.A., 1854-1903...	470	
Modern Classical Course, B.L., 1876-1903...	548	
English Course, B.L., 1887-1903.....	459	
Civil Historical Course, B.L., 1893-1903....	383	
General Science Course, B.S., 1886-1903....	722	
Geology Course, B.S., 1914.....	1	
School of Music, M.G., 1898-1916.....	134	

* Not included in totals.

		1921
School of Commerce (B.L., 8; B.S., 1), 1902-1903	9	
Normal Course, 1865-1868	25	
Metallurgical Engineering Course, B.M.E., 1876-1896	16	
General Engineering Course, B.S., 1901-1910	95	
Higher Degrees on Examination, 1875-1921	2,886	239
Master of Arts, M.A., 1879-1921	1,329	110
Master of Letters, M.L., 1879-1903	97	
Master of Science, M.S., 1879-1921	555	74
Engineer, 1879-1921	359	9
Master of Pharmacy, M.Pharm., 1903	1	
Master of Agriculture, M.Agr., 1893	1	
Master of Philosophy, M.Ph., 1879-1921	57	7
Master of Public Health, 1915-1916	4	
Doctor of Public Health, 1912-1915	2	
Doctor of Philosophy, 1892-1921	481	39

DEGREES

Number of first degrees granted, 1854-1921		16,273
Bachelor of Arts, 1854-1921	6,444	
Bachelor of Philosophy, 1898-1921	673	
Bachelor of Letters, 1876-1903	1,398	
Bachelor of Science, 1873-1921	5,030	
Bachelor of Metallurgical Engineering, 1876-1896	16	
Bachelor of Laws, 1869-1921	2,135	
Bachelor of Music, 1917-1921	30	
Graduate of Music, 1896-1916	134	
Graduate in Pharmacy, 1884-1921	388	
Graduate in Agriculture (Middle Course), 1910-1921	161*	185*
Normal Course, 1865-1868	25	
Course for Supervisors of Music, 1910-1921	105*	127*
Higher Degrees on Examination, 1875-1921		2,886
Masters, 1879-1921	2,044	
Engineer, 1879-1921	359	
Doctor of Public Health, 1912-1915	2	
Doctor of Philosophy, 1892-1921	481	
Grand Total of First and Higher Degrees granted, 1854-1921		19,159

*Not included in totals.

HONORARY DEGREES

		1921
Doctor of Letters	3	1
Doctor of Laws	111	
Doctor of Literature	3	
Doctor of Science	11	2
Doctor of Philosophy	4	
Doctor of Medicine	1	
Master of Arts	25	2
Master of Science	1	
Civil Engineer	4	
Mechanical Engineer	1	
Bachelor of Arts	1	
Bachelor of Laws	2	
Bachelor of Mechanical Engineering	1	
Total Honorary Degrees	168	

FACULTY

	Men	Women	Total
President and Deans	9	1	10
Professors	136	2	138
Associate Professors	66	2	68
Assistant Professors	136	34	170
Lecturers (small part of time)	28	2	30
Instructors	254	76	330
Assistants (mainly half time, but a few more than half time, and a considerable number less than half time)	186	72	258
Student Assistants (small part of time)	41	15	56
Total	856	204	1,060

The above summary includes:

a. Members of the instructional staff at Madison, both for resident instruction and for extension.

b. Extension workers throughout the state.

c. Administrative officers and librarians having the rank of any member of instructional staff.

Included in the above summary are the following who are on leave of absence for the academic year 1921-1922:

	Men	Women	Total
Professors	6	0	6
Associate Professors	1	0	1
Assistant Professors	3	0	3
Lecturer	1	0	1
Total	11	0	11

There are eight *emeritus* professors not included in the summary.

STUDENTS

Summary by Classes

	Men	Women	Total	
GRADUATE SCHOOL—				
College of Letters and Science.	347	172	519	
College of Engineering.....	36	0	36	
College of Agriculture.....	126	26	152	
	509	198		707
SENIORS—				
College of Letters and Science..	486	395	881	
College of Engineering.....	213	0	213	
College of Agriculture.....	92	56	148	
Law School, Third Year.....	45	1	46	
School of Music.....	1	14	15	
	837	466		1,303
JUNIORS—				
College of Letters and Science..	626	495	1,121	
College of Engineering.....	312	0	312	
College of Agriculture.....	115	64	179	
Law School, Second Year.....	55	0	55	
School of Music.....	1	17	18	
	1,109	576		1,685
SOPHOMORES—				
College of Letters and Science..	619	547	1,166	
College of Engineering.....	335	0	335	
College of Agriculture.....	104	81	185	
Law School, First Year.....	75	5	80	
School of Music.....	1	19	20	
	1,134	652		1,786
FRESHMEN—				
College of Letters and Science..	853	631	1,484	
College of Engineering.....	373	0	373	
College of Agriculture.....	118	74	192	
School of Music.....	3	40	43	
	1,347	745		2,092
SPECIAL STUDENTS—				
College of Letters and Science..	55	32	87	
College of Engineering.....	15	0	15	
College of Agriculture.....	19	1	20	
Law School	20	2	22	
School of Music.....	3	3	6	
	112	38		150

	Men	Women	Total	
STUDENTS IN L. & S. ELECTING LAW STUDIES—				
Seniors	15	0	15	
Juniors	15	2	17	
		30	2	32
UNCLASSIFIED STUDENTS—				
(School of Music)		4	21	25
MEDICAL SCHOOL—				
Graduates	24	4	28	
Seniors	70	5	75	
Juniors	55	4	59	
		149	13	162
WISCONSIN LIBRARY SCHOOL—				
Graduate	0	1	1	
Seniors	0	2	2	
Junior	0	1	1	
Unclassified Students	0	19	19	
		0	23	23
Grand Total, Regular Year		5,231	2,734	7,965
Twice Counted		188	21	209
Net Total, Regular Year		5,043	2,713	7,756
SUMMER SESSION OF 1921	2,125	2,432	4,557	
Twice Counted	998	413	1,411	
		1,127	2,019	3,146
VOCATIONAL SCHOOL	310	0	310	
Twice Counted	223	0	223	
		87	0	87
SHORT COURSE IN AGRICULTURE—				
Short Course	248	4	252	
Winter Dairy Course	123	3	126	
		371	7	378
GRAND NET TOTAL (excluding Extension)		6,628	4,739	11,367

Summary of Colleges

	Men	Women	Total	
GRADUATE SCHOOL—				
Fellows	32	13	45	
Scholars	16	12	28	
Other Graduate Students	461	173	634	
	509	198	707	
(Not carried to totals because included in lists below.)				
COLLEGE OF LETTERS AND SCIENCE—				
Fellows	19	9	28	
Scholars	8	11	19	
Graduate Students	320	152	472	
Seniors	486	395	881	
Juniors	626	495	1,121	
Sophomores	619	547	1,166	
Freshmen	853	631	1,484	
Adult Specials, Fourth Year	0	1	1	
Adult Specials, Third Year	11	1	12	
Adult Specials, Second Year	12	8	20	
Adult Specials, First Year	32	22	54	
	2,986	2,272		5,258
Included above are the following Courses:				
COURSE IN COMMERCE:				
Seniors	181	23	204	
Juniors	216	32	248	
Sophomores	205	31	236	
Freshmen	364	43	407	
Adult Specials, Third Year	4	0	4	
Adult Specials, Second Year	5	0	5	
Adult Specials, First Year	7	0	7	
	982	129	1,111	
COURSE FOR NORMAL SCHOOL GRADUATES:				
Seniors	9	21	30	
Juniors	11	28	39	
	20	49	69	
COURSE IN JOURNALISM:				
Seniors	21	26	47	
Juniors	31	32	63	
Sophomores	31	41	72	
Freshmen	36	47	83	
Adult Special, Third Year	1	0	1	
Adult Specials, First Year	2	0	2	
	122	146	268	

	Men	Women	Total
COURSE IN PHARMACY:			
Four Year Course:			
Seniors	7	1	8
Juniors	10	2	12
Sophomores	5	0	5
Freshmen	9	4	13
Adult Special, Third Year	1	0	1
Adult Special, Second Year	1	0	1
Two Year Course:			
Second Year	21	2	23
First Year	28	1	29
Adult Specials, First Year	3	1	4
	85	11	96
COURSE IN CHEMISTRY:			
Seniors	24	4	28
Juniors	21	6	27
Sophomores	19	4	23
Freshmen	12	3	15
Adult Special, First Year	1	0	1
	77	17	94
COURSE WITHOUT FOREIGN LANGUAGE REQUIREMENT:			
Seniors	12	2	14
Juniors	13	5	18
Sophomores	19	3	22
Freshmen	13	2	15
	57	12	69
COURSE IN HUMANITIES:			
Seniors	3	4	7
Juniors	2	2	4
Sophomores	2	4	6
Freshmen	0	3	3
	7	13	20
SCHOOL OF MEDICINE:			
Graduate Students	24	4	28
Seniors	70	5	75
Juniors	54	4	58
	148	13	161
SCHOOL OF EDUCATION:			
Fellows	0	2	2
Scholars	0	2	2
Graduate Students	10	5	15
Seniors	22	117	139

	Men	Women	Total
Juniors	23	113	136
Sophomores	18	62	80
Freshmen	8	51	59
Adult Special, Third Year	0	1	1
Adult Special, Second Year	0	1	1
Adult Specials, First Year	1	2	3
	82	356	438
STUDENTS IN BOTH THE SCHOOL OF EDUCATION AND SPECIAL COURSES. INCLUDED ONLY IN THEIR SPECIAL COURSES ABOVE.			
Seniors:			
Course for Normal School Graduates	7	3	10
Course in Journalism	0	1	1
Course in Chemistry	1	1	2
Course without Foreign Language Requirement	5	0	0
Course in Humanities	0	4	4
Juniors:			
Course in Commerce	1	1	2
Course for Normal School Graduates	5	7	12
Course in Journalism	0	1	1
Course in Chemistry	1	0	1
Course without Foreign Language Requirement	2	1	3
Sophomore:			
Course without Foreign Language Requirement	1	0	1
	23	19	42
LETTERS AND SCIENCE STUDENTS NOT IN SPECIAL COURSES:*			
Fellows	19	7	26
Scholars	8	9	17
Graduate Students	286	143	429
Seniors	137	192	329
Juniors	245	271	516
Sophomores	299	400	699
Freshmen	383	477	860
Adult Special, Fourth Year	0	1	1
Adult Specials, Third Year	5	0	5
Adult Specials, Second Year	6	7	13
Adult Specials, First Year	18	19	37
	1,406	1,526	2,932

*Letters and Science students electing law or library school studies are included.

COLLEGE OF ENGINEERING—	Men	Women	Total	
Fellows	3	0	3	
Scholars	3	0	3	
Graduate Students	30	0	30	
Seniors	213	0	213	
Juniors	312	0	312	
Sophomores	335	0	335	
Freshmen	373	0	373	
Adult Specials, Third Year	3	0	3	
Adult Specials, Second Year	9	0	9	
Adult Specials, First Year	3	0	3	
	1,284	0		1,284
Included above are the following courses:				
CIVIL ENGINEERING COURSE:				
Seniors	47	0	47	
Juniors	64	0	64	
Sophomores	64	0	64	
Freshmen	91	0	91	
Adult Special, Third Year	1	0	1	
	267	0	267	
MECHANICAL ENGINEERING COURSE:				
Seniors	51	0	51	
Juniors	76	0	76	
Sophomores	97	0	97	
Freshmen	85	0	85	
Adult Special, Third Year	1	0	1	
Adult Specials, Second Year	3	0	3	
Adult Special, First Year	1	0	1	
	314	0	314	
ELECTRICAL ENGINEERING COURSE:				
Seniors	57	0	57	
Juniors	105	0	105	
Sophomores	112	0	112	
Freshmen	131	0	131	
Adult Specials, Second Year	4	0	4	
Adult Special, First Year	1	0	1	
	410	0	410	
CHEMICAL ENGINEERING COURSE:				
Seniors	40	0	40	
Juniors	51	0	51	
Sophomores	40	0	40	
Freshmen	50	0	50	
Adult Special, Third Year	1	0	1	
Adult Special, Second Year	1	0	1	
	183	0	183	

	Men	Women	Total	
MINING ENGINEERING COURSE:				
Seniors	18	0	18	
Juniors	16	0	16	
Sophomores	22	0	22	
Freshmen	16	0	16	
Adult Special, Second Year	1	0	1	
Adult Special, First Year	1	0	1	
	74	0	74	
COLLEGE OF AGRICULTURE—				
Fellows	10	4	14	
Scholars	5	1	6	
Graduate Students	111	21	132	
Seniors	92	56	148	
Juniors	115	64	179	
Sophomores	104	81	185	
Freshmen	118	74	192	
Adult Special, Fourth Year	1	0	1	
Adult Specials, Third Year	3	0	3	
Adult Specials, Second Year	9	0	9	
Adult Specials, First Year	6	1	7	
	574	302		876
Included above are the following courses:				
LONG COURSE:				
Fellows	10	1	11	
Scholars	5	0	5	
Graduate Students	111	10	121	
Seniors	92	2	94	
Juniors	115	2	117	
Sophomores	78	2	80	
Freshmen	85	1	86	
Adult Special, Fourth Year	1	0	1	
Adult Specials, Third Year	3	0	3	
Adult Specials, Second Year	6	0	6	
Adult Specials, First Year	5	0	5	
	511	18	529	
MIDDLE COURSE:				
Second Year	26	0	26	
First Year	33	2	35	
Adult Specials, Second Year	3	0	3	
Adult Special, First Year	1	0	1	
	63	2	65	
HOME ECONOMICS COURSE:				
Fellows	0	3	3	
Scholars	0	1	1	
Graduate Students	0	11	11	

	Men	Women	Total		
Seniors	0	54	54		
Juniors	0	62	62		
Sophomores	0	79	79		
Freshmen	0	71	71		
Adult Special, First Year	0	1	1		
	0	282	282		
SCHOOL OF EDUCATION (included above):					
Fellows	0	2	2		
Graduate Students	5	1	6		
Seniors	21	30	51		
Juniors	6	25	31		
Sophomores	0	2	2		
Freshman	1	0	1		
	33	60	93		
LAW SCHOOL—					
Third Year	45	1	46		
Second Year	55	0	55		
First Year	75	5	80		
Specials, Third Year	6	0	6		
Specials, Second Year	7	0	7		
Specials, First Year	7	2	9		
Students in Letters and Science electing Law studies	30	2	32		
		225	10		235
MEDICAL SCHOOL—					
Second Year	69	6	75		
First Year	80	7	87		
		149	13		162
SCHOOL OF MUSIC—					
Four Year Course:					
Seniors	1	14	15		
Juniors	1	17	18		
Sophomores	1	6	7		
Freshmen	1	18	19		
Adult Special, Third Year	1	0	1		
Adult Special, First Year	0	1	1		
Two Year Course:					
Second Year	0	13	13		
First Year	2	22	24		
Adult Specials, Second Year	0	2	2		
Adult Specials, First Year	2	0	2		
Unclassified Students	4	21	25		
		13	114		127

School of Education (included above.)	Men	Women	Total
Four Year Course:			
Seniors	1	7	8
Juniors	1	8	9
Sophomores	0	1	1
Freshmen	1	1	2
Adult Special, Third Year	1	0	1
Adult Special, First Year	0	1	1
Two Year Course:			
Second Year	0	8	8
First Year	2	16	18
Adult Special, Second Year	0	1	1
Adult Specials, First Year	2	0	2
	8	43	51
Students in other colleges electing music—98. Seniors, 13; Juniors, 24; Sophomores, 26; Freshmen, 35.			
WISCONSIN LIBRARY SCHOOL—			
Library Course	0	19	19
Joint Course	0	4	4
	0	23	23
Grand Total	5,231	2,734	7,965
Deducting twice enumerated	188	21	209
Net Total, Regular Year	5,043	2,713	7,756
The item of 209 students twice enumerated occurs because of double classification in two colleges as follows:			
Letters and Science and Medicine	148	13	161
Letters and Science and Law	38	4	42
Engineering and Law	1	0	1
Agriculture and Law	1	0	1
Letters and Science and Wisconsin Library School	0	4	4
	188	21	209
SUMMER SESSION OF 1921—			
College of Letters and Science:			
Graduate Students	453	601	1,054
Undergraduates and Teachers	1,005	1,509	2,514
College of Engineering:			
Graduate Students	10	0	10
Undergraduates and Teachers	350	0	350

	Men	Women	Total	
College of Agriculture:				
Graduate Students	77	64	141	
Undergraduates and Teachers.	114	143	257	
Law School	110	0	110	
Music School	6	93	99	
(Students in other colleges electing music—70.)				
Library School	0	22	22	
	2,125	2,432	4,557	
Deducting students in attendance during the regular year 1921-22	998	413	1,411	
		1,127	2,019	3,146
The 1,411 students in attendance during the regular year are classified as follows:				
College of Letters and Science:				
Graduate Students	93	31	124	
Undergraduates and Teachers.	473	306	779	
College of Engineering:				
Graduate Students	4	0	4	
Undergraduates and Teachers.	270	0	270	
College of Agriculture:				
Graduate Students	37	6	43	
Undergraduates and Teachers.	69	38	107	
Law School	48	0	48	
Music School	4	32	36	
	998	413	1,411	
ADDITIONAL ENROLLMENT—				
College of Agriculture:				
Short Course:				
Second Year	83	1	84	
First Year	165	3	168	
	248	4	252	
Dairy Course	123	3	126	
		371	7	378
FEDERAL BOARD STUDENTS RECEIVING VOCATIONAL EDUCATION—				
College of Letters and Science:				
Graduate Students	2	0	2	
Undergraduates	119	0	119	
College of Engineering:				
Graduate Student	1	0	1	
Undergraduates	78	0	78	

	Men	Women	Total
College of Agriculture:			
Graduate Students	7	0	7
Undergraduates	77	0	77
Law School	16	0	16
School of Medicine	10	0	10
	310	0	310
Deducting twice enumerated	223	0	223
	87	0	87
GRAND TOTAL, EXCLUDING EXTENSION STUDENTS	6,628	4.739	11,367
The 223 Federal Board Students twice enumerated are included above in the number of students for the regular year, and are classified as follows:			
College of Letters and Science:			
Graduate Students	2	0	2
Undergraduates	100	0	100
College of Engineering:			
Graduate Student	1	0	1
Undergraduates	53	0	53
College of Agriculture:			
Graduate Students	7	0	7
Undergraduates	34	0	34
Law School	16	0	16
School of Medicine	10	0	10
	223	0	223
EXTENSION DIVISION (EXTRA-MURAL COLLEGE)—			
Correspondence-Study Department	14,982	6,270	21,252

This total enrollment comprises all those who have enrolled for correspondence instruction within the current year up to March 1st, and also those carried over who had enrolled prior to July 1st, 1921, but whose registrations were then in force and whose time limit for completion of work had not terminated. Correspondence-Study enrollments are made at any time throughout the entire year.

SUMMARY BY STATES, FOREIGN COUNTRIES, AND SEX
Regular Year, Summer Session Only, Federal Board, and Short and Dairy Course

	Regular Year		Summer Session		Federal Board		Short and Dairy Courses		TOTAL Different Students		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
1 Wisconsin	3,812	1,658	559	770	72	0	327	7	4,770	2,435	7,205
2 Illinois	311	339	123	293	8	0	26	0	468	632	1,100
3 Indiana	82	74	52	153	1	0	4	0	139	227	366
4 Iowa	105	81	39	68	1	0	1	0	146	149	295
5 Ohio	49	50	61	180	0	0	1	0	111	180	291
6 Michigan	46	78	33	125	2	0	1	0	82	203	285
7 Missouri	37	53	45	143	0	0	0	0	82	196	2 8
8 Minnesota	70	64	22	43	1	0	2	0	95	107	202
9 Kansas	18	21	16	62	1	0	0	0	35	83	118
10 South Dakota	51	29	14	12	0	0	0	0	65	41	106
11 New York	35	32	7	16	0	0	0	0	42	48	90
12 Pennsylvania	20	29	7	31	0	0	3	0	30	60	90
13 Kentucky	20	10	15	25	0	0	0	0	35	35	70
14 Nebraska	10	18	8	29	0	0	0	0	18	47	65
15 North Dakota	17	13	12	12	0	0	0	0	29	25	54
16 Texas	17	7	8	9	0	0	0	0	25	16	41
17 Montana	18	12	3	2	0	0	0	0	21	14	35
18 New Jersey	15	8	7	5	0	0	0	0	22	13	35
19 Oklahoma	13	10	4	8	0	0	0	0	17	18	35
20 Massachusetts	9	17	2	5	0	0	0	0	11	22	33
21 Colorado	15	4	4	7	0	0	1	0	20	11	31
22 District of Columbia	5	11	4	10	0	0	0	0	9	21	30
23 Tennessee	7	9	5	8	0	0	0	0	12	17	29
24 Mississippi	7	3	8	9	0	0	0	0	15	12	27
25 California	13	8	2	1	0	0	0	0	15	9	24
26 Louisiana	1	8	8	6	0	0	0	0	9	14	23
27 Idaho	14	7	0	0	0	0	1	0	15	7	22
28 Virginia	9	2	5	3	0	0	1	0	15	5	20
29 West Virginia	4	3	5	5	0	0	0	0	9	8	17
30 Alabama	3	2	5	4	0	0	0	0	8	6	14
31 Arkansas	7	4	1	2	0	0	0	0	8	6	14

SUMMARY BY STATES, FOREIGN COUNTRIES, AND SEX—Continued
Regular Year, Summer Session Only, Federal Board, and Short and Dairy Course

	Regular Year		Summer Session		Federal Board		Short and Dairy Courses		TOTAL Different Students		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
32 Washington	8	6	0	0	0	0	0	0	8	6	14
33 Connecticut	6	1	3	3	0	0	0	0	9	4	13
34 Maryland	5	2	2	1	1	0	0	0	8	3	11
35 New Hampshire	3	3	1	3	0	0	0	0	4	6	10
36 Oregon	4	2	2	2	0	0	0	0	6	4	10
37 Utah	6	2	1	1	0	0	0	0	7	3	10
38 North Carolina	6	0	1	2	0	0	0	0	7	2	9
39 South Carolina	4	0	3	1	0	0	0	0	7	1	8
40 Florida	3	2	1	1	0	0	0	0	4	3	7
41 New Mexico	3	1	0	3	0	0	0	0	3	4	7
42 Georgia	3	0	0	2	0	0	0	0	3	2	5
43 Vermont	2	3	0	0	0	0	0	0	2	3	5
44 Arizona	2	2	0	0	0	0	0	0	2	2	4
45 Delaware	1	3	0	0	0	0	0	0	1	3	4
46 Rhode Island	2	0	0	1	0	0	0	0	2	1	3
47 Wyoming	1	0	2	0	0	0	0	0	3	0	3
48 Maine	1	1	0	0	0	0	0	0	1	1	2
49 Nevada	0	0	0	0	0	0	0	0	0	0	0
Total, United States	4,900	2,692	1,100	2,016	87	0	368	7	6,455	4,715	11,170
1 China	59	4	13	0	0	0	0	0	72	4	76
2 Philippine Islands	17	0	5	0	0	0	0	0	22	0	22
3 Canada	12	5	2	1	0	0	0	0	14	6	20
4 Norway	13	1	2	0	0	0	1	0	16	1	17
5 India	4	0	3	0	0	0	0	0	7	0	7
6 Japan	5	0	0	0	0	0	2	0	7	0	7
7 Argentina	6	0	0	0	0	0	0	0	6	0	6
8 Hawaii	4	2	0	0	0	0	0	0	4	2	6
9 France	0	5	0	0	0	0	0	0	0	5	5
10 South Africa	4	0	0	0	0	0	0	0	4	0	4

SUMMARY BY STATES, FOREIGN COUNTRIES, AND SEX—Continued
Regular Year, Summer Session Only, Federal Board, and Short and Dairy Course

	Regular Year		Summer Session		Federal Board		Short and Dairy Courses		TOTAL Different Students		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
11 Mexico	2	1	0	0	0	0	0	0	2	1	3
12 Porto Rico	2	1	0	0	0	0	0	0	2	1	3
13 Australia	2	0	0	0	0	0	0	0	2	0	2
14 Belgium	1	1	0	0	0	0	0	0	1	1	2
15 Peru	2	0	0	0	0	0	0	0	2	0	2
16 Switzerland	1	0	0	1	0	0	0	0	1	1	2
17 Armenia	0	0	1	0	0	0	0	0	1	0	1
18 Brazil	1	0	0	0	0	0	0	0	1	0	1
19 Chile	0	0	0	1	0	0	0	0	0	1	1
20 Colombia	1	0	0	0	0	0	0	0	1	0	1
21 Finland	0	0	1	0	0	0	0	0	1	0	1
22 Guatemala	1	0	0	0	0	0	0	0	1	0	1
23 Iceland	1	0	0	0	0	0	0	0	1	0	1
24 New Zealand	1	0	0	0	0	0	0	0	1	0	1
25 Panama Canal Zone	0	1	0	0	0	0	0	0	0	1	1
26 Paraguay	1	0	0	0	0	0	0	0	1	0	1
27 Roumania	1	0	0	0	0	0	0	0	1	0	1
28 Siam	1	0	0	0	0	0	0	0	1	0	1
29 Spain	1	0	0	0	0	0	0	0	1	0	1
Total, Foreign Countries	143	21	27	3	0	0	3	0	173	24	197
Total, Wisconsin	3,812	1,658	559	770	72	0	327	7	4,770	2,435	7,205
Total, Other States	1,088	1,034	541	1,246	15	0	41	0	1,685	2,280	3,965
GRAND TOTAL	5,043	2,713	1,127	2,019	87	0	371	7	6,628	4,739	11,637

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